


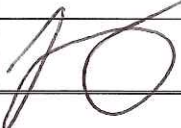


SECTION A: Project Planning Elements

A1. Title (Project Name):	SCE&G Huger Street MGP	
Project Location:	Congaree River between Gervais and Blossom Streets, Columbia SC	
Originating Organization:	SCDHEC State Voluntary Cleanup Section	
SCDHEC Section Managers	Lucas Berresford, Section Manager Jonathan McInnis, Section Manager	
Section Manager's Signature		Date: 03/07/17
Section Manager's Signature		Date: 03/07/17
Project Manager's Name, Position, and Organization:	Greg Cassidy, Project Manager, State Remediation, SCDHEC	
Project Manager's Signature:		Date: 03/07/17
Project Manager's Name, Position, and Organization	Jason Williams, Project Manager, Site Assessment, SCDHEC	
Project Manager's Signature:		Date: 03/07/17

A2. Table of Contents

- A1. Title (*Project Name*): 1**
- A2. Table of Contents 2**
- A3. Distribution List 3**
- A4. Project Personnel 3**
- A5. Background: 3**
- A6. Project Description: 3**
- A7. Quality Objectives and Criteria 4**
- A8. Special Training/Certifications 4**
- A9. Documents and Records 4**
- B1. Sampling Design 4**
- B2. Sampling Methods, General Procedures 7**
- B3. Sample Handling and Custody 7**
- B4. Analytical Methods 7**
- B5. Quality Control 7**
- B6. Instrument/Equipment Testing, Inspection and Maintenance 8**
- B7. Instrument/Equipment Calibration and Frequency 8**
- B8. Inspection/Acceptance for Supplies and Consumables 8**
- B8. Inspection/Acceptance for Supplies and Consumables 7**
- B9. Non-direct Measurements: 7**
- B10. Data Management 7**
- C1. Assessments and Response Actions 8**
- C2. Reports to Management 8**
- D1. Data Review, Verification, and Validation 8**
- D2. Verification and Validation Methods 8**
- D3. Reconciliation with User Requirements 8**

	Figure 1 – Proposed Sample Locations 9	
A3. Distribution List	Sampling Team, Waste Assessment	
A4. Project Personnel	Organization	Responsibilities
Jason Williams	SCDHEC	Site Assessment Project Manager and Site Safety Officer
Greg Cassidy	SCDHEC	State Voluntary Cleanup Project Manager
Dana Cook	SCDHEC	Sampling
Ben Bair	SCDHEC	Sampling
Tim Kadar	SCDHEC	Sampling
Robert Cole	SCDHEC	Sampling
Karen Seaber	SCDHEC	Sampling
Comments:		
Organization Chart: Refer to SCDHEC Site Assessment Program Level QAPP		
A5. Background:	The purpose of this investigation is to determine the surface water quality in the Congaree River as it relates to the coal tar deposits from former manufactured gas plant operations.	
A6. Project Description:	<p>Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA) both of which have been adopted by South Carolina as law, the Site Assessment Section and State Voluntary Cleanup Section, South Carolina Department of Health & Environmental Control will collect samples at the above listed site.</p> <p>For this study, the surface water pathway will be evaluated by sample collection and evaluation.</p> <p>Sampling for this site will include the collection of twelve (12) surface water samples. Two surface water sampling locations in the Congaree River will be sampled near the top of the water column and near the bottom of the water column. The samples collected will be used to determine if there has been a release to the environment. This will serve as a baseline sampling event for a long term monitoring plan for the Congaree River project.</p> <p>Sampling at the site will be conducted during the week of March 13, 2017.</p>	
Decision(s) to be made based on data:	The information gathered from this investigation will be used to determine if coal tar in the river bed is having an adverse effect to surface water and serve as the baseline for future monitoring events.	
Applicable regulatory information, actions levels, etc.	Refer to SCDHEC Site Assessment Program Level QAPP	
Field Study Date:	March 21, 2017	

Projected Lab Completion Date:	April 21, 2017
Final Report Completion Date:	May 21, 2017
A7. Quality Objectives and Criteria	
<p>All water samples collected in this study will be analyzed for the following: VOCs SVOCs</p> <p>MS/MSD samples will be collected based on the number of samples.. A water temp blank will be prepared for each day in the field for the respective media and one preservative blank will also be collected.</p> <p>Refer to SCDHEC Site Assessment Program Level QAPP.</p>	
A8. Special Training/Certifications	
Refer to SCDHEC Site Assessment Program Level QAPP	
A9. Documents and Records	
Refer to SCDHEC Site Assessment Program Level QAPP.	
<p>All field observations, measurements and sampling activities supporting the field investigation will be recorded and documented according to the SESD <i>Operating Procedure for Logbooks</i>, SESDPROC-010-R3 and the SCDHEC SOP&QA Manual.</p>	

SECTION B: Data Generation and Acquisition

B1. Sampling Design

Refer to SCDHEC Site Assessment Program Level QAPP.

Sample Number	Sample Media	Analyses	Location/Rationale
CR-SW-01	Surface Water	VOA SVOA	Location: Taken from outfall from Under Gervais Street.
CR-SW-02	Surface Water	VOA SVOA	Location: At the outfall of the stream that runs from the outfall to the Congaree river.

CR-SW-03	Surface Water	VOA SVOA	<p>Location: Taken from an area upgradient of the Gervais street bridge.</p> <p>Rationale: This point is to set a background concentration in an area that does not have coal tar in the sediment.</p>
CR-SW-04	Surface Water	VOA SVOA	<p>Location: Taken from off the sandbar where coal tar deposits have been previously identified.</p> <p>Rationale: To determine water quality and potential impacts from coal tar.</p>
CR-SW-05	Surface Water	VOA SVOA	<p>Location: Taken approximately 200 feet downstream of CR-SW-04.</p> <p>Rationale: To determine water quality and potential impacts from coal tar.</p>
CR-SW-06	Surface Water	VOA SVOA	<p>Location: Taken approximately 200 feet downstream of CR-SW-05</p> <p>Rationale: To determine water quality and potential impacts from coal tar.</p>
CR-SW-07	Surface Water	VOA SVOA	<p>Location: Taken approximately 200 feet downstream of CR-SW-06.</p> <p>Rationale: To determine water quality and potential impacts from coal tar.</p>
CR-SW-08	Surface Water	VOA SVOA	<p>Location: Taken approximately 200 feet downstream of CR-SW-07.</p> <p>Rationale: To determine water quality and potential impacts from coal tar.</p>
CR-SW-09	Surface Water	VOA SVOA	<p>Location: Taken approximately 200 feet downstream of CR-SW-08.</p> <p>Rationale: To determine water quality and potential impacts from coal tar.</p>
CR-SW-10	Surface Water	VOA SVOA	<p>Location: Taken approximately 200 feet downstream of CR-SW-09.</p> <p>Rationale: To determine water quality and potential impacts from coal tar.</p>
CR-SW-11	Surface Water	VOA SVOA	<p>Location: Taken approximately 200 feet downstream of CR-SW-010.</p> <p>Rationale: To determine water quality and potential impacts from coal tar.</p>

CR-SW-12		Location: Taken approximately 200 feet downstream of CR-SW-11. Rationale: To determine water quality and potential impacts from coal tar
CR-SW-13		Location: Taken approximately 200 feet downstream of CR-SW-12. Rationale: To determine water quality and potential impacts from coal tar.
Volume, Holding Time, and Preservation Requirements. See SCDHEC Site Assessment Program Level QAPP		
Maps or Diagrams with sample locations: See Attached		
B2. Sampling Methods, General Procedures Refer to SCDHEC Site Assessment Program Level QAPP.		
B3. Sampling Handling and Custody All samples will be handled and custody maintained in accordance with the SCDHEC Site Assessment Program Level QAPP		
B4. Analytical Methods		
SESD:	Suggested references are found at http://epa.gov/region4/sesd/asbsop/asb-loqam.pdf	
CLP:	Suggested references are found at www.epa.gov/superfund/programs/clp .	
Other:	Level 3 QA/QC will be used.	
B5. Quality Control		
Field:	Refer to SCDHEC Site Assessment Program Level QAPP	
Laboratory:	Refer to SCDHEC Site Assessment Program Level QAPP and selected CLP QA/QC	

B6. Instrument/Equipment Testing, Inspection and Maintenance

Refer to SCDHEC Site Assessment Program Level QAPP

B7. Instrument/Equipment Calibration and Frequency

Refer to SCDHEC Site Assessment Program Level QAPP

B8. Inspection/Acceptance for Supplies and Consumables

Refer to SCDHEC Site Assessment Program Level QAPP.

B9. Non-direct Measurements:

Refer to SCDHEC Site Assessment Program Level QAPP

B10. Data Management

The project manager will be responsible for ensuring that all requirements for data management are met. All data generated for this field investigation, whether hand-recorded or obtained using an electronic data logger will be recorded, stored and managed according to the following procedures:

- SESD Operating Procedure for Control of Records, SESDPROC-002-R3.*
- SESD Operating Procedures for Logbooks, SESDPROC-010-R3.*

Refer to SCDHEC Site Assessment Program Level QAPP

SECTION C: Assessment/Oversight

C1. Assessments and Response Actions

Assessments will be conducted during the field investigation according to the *SESD Operating Procedure for Project Planning*, SESDPROC-016-R1 to ensure the QAPP is being implemented as approved. The Project Manager is responsible for all corrective actions while in the field.

Refer to SCDHEC Site Assessment Program Level QAPP.

C2. Reports to Management

The SCDHEC Project Manager (PM), Greg Cassidy, will be responsible for notifying the appropriate SCDHEC Program Manager if any circumstances arise during the field investigation that may adversely impact the quality of the data collected. SCDHEC PM will prepare said report and send to Program Manager for review.

SECTION D: Data Validation and Usability

D1. Data Review, Verification, and Validation

Refer to SCDHEC Site Assessment Program Level QAPP

D2. Verification and Validation Methods

Refer to SCDHEC Site Assessment Program Level QAPP

D3. Reconciliation with User Requirements

Refer to SCDHEC Site Assessment Program Level QAPP.

****Footnotes:** This Quality Assurance Project Plan (QAPP) has been prepared and approved according to the EPA *Requirements for Quality Assurance Project Plans (EPA QA/R5 EPA/240/B-01/003)*, U.S. Environmental Protection Agency, Office of Environmental Information, Washington, DC, March 2001(USEPA, 2001). This document will be used to ensure that the environmental data collected for this project are of the type and quality for the intended purposes.

