

## **ALICEVILLE DERAILMENT REVISED (11/18/13) TASK PLAN**

### **Revised Surface Water Sampling and Analysis Task Plan**

**Objective:** To assess surface water quality for hydrocarbons related to the Aliceville Derailment site located at CR2, Aliceville, AL (Site), for the purposes of assessing surface water quality. The revised plan will commence when approved by representatives of Alabama & Gulf Coast Railway LLC (AGR) and Incident Command (IC).

**Safety:** Site personnel will review and adhere to the site-specific Health and Safety Plan (HASP). Pre-task safety tailgate meetings to review job specific hazards will be conducted prior to sampling activities. Breathing zones during all herein described water sampling activities will be monitored thru the site-specific Air Sampling and Analysis Plan (SAP), which is being prepared under separate cover for independent AGR and IC review and approval.

**Purpose:** The Environmental Unit, on behalf of the Planning Section, will collect three downstream surface water samples, as well as at least one background sample. Sampling will be conducted to demonstrate concentrations of hydrocarbons downstream of the incident site, and establish background concentration for comparative purposes.

**Procedure:** The following procedures will be implemented for this task.

1. Based on the review of data from Nov 11-14, 2013, sampling frequency is proposed to be reduced. As revised, environmental sampling personnel will collect surface waters samples weekly and after precipitation events totaling 0.5 inches during a 24-hour period from the following locations:
  - a. Approximately 150 feet downstream (west) of the derailment site;
  - b. Approximately 800 feet downstream of the derailment site (33.0862, -88.1424).
  - c. Approximately 1500 feet downstream of the derailment site at the culvert at CR 2. (33.0861, -88.1449).
  - d. An upstream, control sample at the County Hwy 14 culvert (33.0961, -88.1361).

A map of the proposed sampling locations is attached.

2. The following field notes will be collected for each surface water sample:
  - a. Observations regarding sheen, color, odor, etc.
  - b. GIS coordinates of sampling points.
  - c. Photo-documentation of sample area.
  - d. Date and time.
3. Sample containers will be clearly labeled with the following information:
  - a. Unique sample identification
  - b. Sample Type (e.g., discrete or composite)
  - c. Sampler initials
  - d. Date and time sample collected
  - e. Preservative

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Concurrent with sample collection, water quality parameters will be evaluated and recorded. Parameters will include:

- DO
- Temperature
- pH
- Conductivity

4. Field samples will be contained and preserved in accordance with appropriate USEPA specifications consistent with the intended analysis.
5. Evidence of collection, shipment, laboratory receipt, and laboratory custody while samples are in the laboratory's possession will be documented by maintaining a Chain of Custody (COC) that records each sample and the individuals responsible for sample collection, shipment, and receipt at the project laboratory. All Samples will be accompanied by a COC Record.
6. Samples will be submitted to TestAmerica, Inc. in Pensacola, FL.
7. Sample results and COCs will be provided to AGR following receipt and CTEH® review. The laboratory turn-around-time (TAT) for receipt of results will be 3 days.

**Sampling Methods:** Based on the review of data collected on site from Nov 11-14, 2013, a reduced parameter list is proposed. As revised, water samples will be analyzed by the following methods:

Analysis	Method	Containers	Preservative	Hold Time
BTEX	8260B	2-40mL VOA vials	Preserved with HCl; maintained on ice until 4° C	14 days
PAHs	8270C	2 – 1 L ambers	Unpreserved; maintained on ice until 4° C	14 days

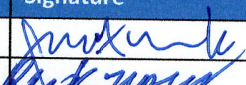
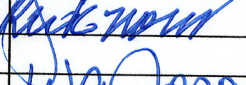
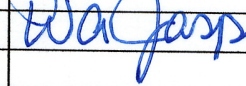

**Quality Assurance:** The goal of the field Quality Assurance (QA) program is to document that samples are collected without introducing a bias (i.e., the effects of accidental cross-contamination are eliminated) and refers to the sampling and analysis procedures for generating valid and defensible data. To provide QA for the proposed sampling, the following QA will occur:

- Field Duplicate Sample (1 in 10 samples)
- Field Split Sample (when requested by a regulatory agency or the RP)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) (1 in 20 samples)
- Laboratory quality control (procedures will be conducted in a manner consistent with relevant State and federal regulatory guidance)

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	Name/Position	Signature	Date Signed
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Approved By RP-IC:	W.A. Jasper		11/18/13
Approved By SOSC:			
Approved By FOSC:	Jordan Garrard		11/18/13

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