

**2017 JTEC LANDFILL INSPECTION SUPPLEMENTAL REPORT**

**CITY UTILITIES OF SPRINGFIELD, MISSOURI**

**PREPARATION DATE:**

**January 18, 2018**

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## JTEC LANDFILL INSPECTION SUPPLEMENTAL REPORT CERTIFICATION

Gerald Fox, Missouri Professional Engineer, License Number 203019048, hereby certifies that the 2017 JTEC Landfill Inspection Supplemental Report herein meets the requirements of 40 CFR Section 257.84.

Name: Gerald Fox

Signature: 

Date: 1/18/2018

Affix Seal Here:



## **1. 2017 JTEC LANDFILL INSPECTION SUPPLEMENTAL REPORT**

After completion of the 2017 JTEC Landfill Inspection Report, further review revealed additional items that occurred at the JTEC landfill. Below is a supplemental report of the activities discovered.

According to the JTEC landfill operating record on January 23, 2017 a dye introduction trench was dug in the landfill to perform a dye tracing investigation. After reviewing the correspondence between CU project manager, the contractor coordinating the dye trace investigation and other CU personnel as well as the supplemental work plan provided to CU by the contractor the following information was gathered. The trench was approximately 28 feet long, 3 feet in width, and had a variable depth ranging from 7.5 to 12 feet. The trench was located south of the uncapped active working face of landfill and north of the landfill leachate pond. Ozark Underground Laboratory, a contractor to City Utilities, noted that upon completion of the dye tracing investigation the trench had at least 500 gallons of water remaining in the bottom of the trench and was not removed prior to backfilling. The CU project manager stated that the trench was backfilled with clay to within 18-24 inches of the top of the trench. Based on the information reviewed in the operating record and the observation by the onsite project manager, construction and backfilling of the trench, was performed consistent with the work plan, using the best possible engineering practices and should have no adverse impacts to the function or operation of the JTEC landfill.

According to the JTEC landfill operating record in March/April 2017 the Phase 1 capped and closed portion of the JTEC landfill was investigated to ensure the final cover system met the minimum 18 inches in thickness as required by Permit Number 707702 issued by the Missouri Department of Natural Resources. Using a post hole digger, exploratory holes were carefully dug through the vegetated clay cap on a 100-foot grid to a depth of at least 18 inches. Upon completion, each exploratory hole was visually inspected for CCR, surveyed, backfilled and hand tamped. Of the 126 holes completed, only one hole showed signs of CCR present within the permit specified 18-inch cap. The thickness of the cap that did not meet the minimum depth was 17.65 inches or approximately three-eighths of an inch shy of the required 18 inch cap. Based on the information reviewed in the operating record all construction and backfilling of the exploratory holes were performed following good engineering practices and should have no adverse impacts to the function or operation of the JTEC landfill.