## Mitchell, Brian

**From:** Mitchell, Brian
**Sent:** Thursday, June 04, 2020 12:49 PM
**To:** Bollinger, Karen; Slanczka, Ryan
**Subject:** digitally signed and approved QAPP.....no need for Diane's signatrure
**Attachments:** Downtown Wells Former Electrolux QAPP Addendum No 2.pdf

Brian Mitchell
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TETRA TECH

June 4, 2020

Mr. Brian Mitchell
EPA Project Manager
U.S. Environmental Protection Agency, Region 7
11201 Renner Boulevard
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**Subject:** **Quality Assurance Project Plan, Addendum No. 2**
**Downtown Wells Site and Former Electrolux Site, Jefferson, Iowa**
**U.S. EPA Region 7 START 5, Contract No. 68HE0719D0001**
**Task Order No. 19F0086.003**
**Task Monitor: Brian Mitchell, EPA Project Manager**

Dear Mr. Mitchell:

Tetra Tech, Inc. is submitting the attached Addendum No. 2 to the previously approved Quality Assurance Project Plan prepared by Tetra Tech, Inc. and (dated October 10, 2019) for the Downtown Wells site and Former Electrolux site. If you have any questions or comments, please contact me at (816) 412-1770.

Sincerely,

Ryan Slanczka
START, Project Manager

Ted Faile, PG, CHMM
START Program Manager

Enclosure

X903019F0086.003

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**ADDENDUM NO. 2**

# QUALITY ASSURANCE PROJECT PLAN
# PRELIMINARY ASSESSMENT AND SITE INVESTIGATION
# AT THE DOWNTOWN WELLS SITE AND FORMER ELECTROLUX SITE
# JEFFERSON, IOWA

**Superfund Technical Assessment and Response Team (START) 5**
**Contract No. 68HE0719D0001, Task Order No. 19F0086.003**

Prepared For:

U.S. Environmental Protection Agency
Region 7
Superfund Division
11201 Renner Boulevard
Lenexa, Kansas 66219

June 4, 2020

Prepared By:

Tetra Tech, Inc.
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APPROVED BY:

| | |
|---|---|
| Ryan Slanczka, START Project Manager | 6/4/2020<br>Date |
| Ted Faile, PG, CHMM, START Program Manager | 6/4/2020<br>Date |
| for<br>Kathy Homer, START Quality Assurance Manager | 6/4/2020<br>Date |
| BRIAN MITCHELL Digitally signed by BRIAN MITCHELL Date: 2020.06.04 12:45:54 -05'00'<br>Brian Mitchell, EPA Region 7 Project Manager | Date |
| Diane Harris, EPA Region 7 Quality Assurance Manager | Date |

**ADDENDUM NO. 2**

**QUALITY ASSURANCE PROJECT PLAN**
**DOWNTOWN WELLS SITE AND FORMER ELECTROLUX SITE**
**JEFFERSON, IOWA**

This document is an addendum to the Quality Assurance Project Plan (QAPP) dated October 10, 2019, prepared by Tetra Tech, Inc. (Tetra Tech) for a Preliminary Assessment (PA) of the Downtown Wells site and a Site Investigation (SI) of the Former Electrolux site in Jefferson, Iowa. The primary components of the PA and SI tasks addressed by this QAPP addendum are as follows:

- Obtain continuous soil cores from two direct-push technology (DPT) borings at the Former Electrolux site and one DPT boring at the Downtown Wells site, collocated with DPT temporary monitoring wells. The purpose of the soil cores is to document lithological observations and evaluate potential water bearing zones for DPT temporary wells.
- Collect two groundwater samples from each of eight DPT temporary monitoring wells installed within city rights-of-way in downtown Jefferson. Wells will be located next to five historical dry cleaning facilities identified through review of database listings compiled in an Area Corridor Report provided by Environmental Data Resources, Inc. (EDR).
- Collect two groundwater samples from each of seven DPT temporary monitoring wells installed on private property adjacent to the Former Electrolux Plant.
- Obtain and document Global Positional System (GPS) coordinates at all sample locations.
- Submit groundwater samples to the EPA Region 7 laboratory for VOC analysis

Prior to collection of groundwater samples from DPT temporary monitoring wells, continuous soil cores will be obtained using Geoprobe macro-core soil samplers. The boreholes at which the macro-core samplers will be advanced will be collocated with two DPT temporary monitoring wells at the Former Electrolux site and one DPT temporary monitoring well at the Downtown Wells site. Lithological observations of soil cores will be documented in boring logs. The soil cores will be obtained in accordance with EPA Region 7 SOP 4230.07: *Geoprobe Operations*.

DPT groundwater sampling, quality control (QC) sampling, decontamination, and investigation-derived waste procedures will follow techniques outlined in the original QAPP (Tetra Tech 2019). Groundwater sample depths at the DPT temporary monitoring wells will be determined by the onsite Tetra Tech geologist, in collaboration with the U.S. Environmental Protection Agency (EPA) Project Manager and onsite Iowa Department of Natural Resources (IDNR) personnel.

Eight temporary monitoring well locations at the Downtown Wells site were selected within the 10-year capture zone of the contaminated municipal wells, and collocated with five historical dry cleaning facilities identified through review of database listings compiled in an Area Corridor Report provided by EDR. Because DPT temporary wells at the Downtown Wells site will be installed within the city street rights-of-way, Tetra Tech will discuss access arrangements in advance with City of Jefferson officials.

Seven temporary monitoring well locations near the Former Electrolux site were selected in collaboration with the EPA Project Manager. Because DPT temporary monitoring wells near the Former Electrolux site will be installed on private property, Tetra Tech will discuss arrangements in advance with property landowners.

QC samples to be collected during the PA and SI include three groundwater field duplicate samples, one water field blank, one trip blank, and one rinsate blank.