

November 23, 2021

Project No. 20140391

Mr. Paul Grittner Wisconsin Department of Natural Resources 141 NW Barstow Street Waukesha, WI 53188

# SUPERIOR LINENS (BRRTS #02-41-532649) REMEDIAL ACTION WORKPLAN – UPRR RIGHT-OF-WAY, PARCEL NO. 6319999000, CUDAHY, WISCONSIN

Dear Paul Grittner:

On behalf of Union Pacific Railroad (UPRR), Golder Associates Inc. (Golder) is submitting this remedial action workplan for the UPRR right-of-way (ROW) property (Parcel No. 6319999000) located adjacent to the Superior Linens site, Wisconsin Department of Natural Resources (WDNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) #02-41-532649, Facility #241780880.

As part of site investigation activities completed by the Superior Linens property owner, D&C Partners, LLP (D&C), contamination has been identified within the UPRR ROW. According to a letter dated September 9, 2020 from WDNR, *Review of D&C Partners Response to WDNR's June 3, 2020 Correspondence*; to obtain closure, a cap must be maintained in areas where soil contaminant concentrations exceed the direct contact residual contaminant level at depths shallower than four feet. The letter also stated that no additional capping was required to address the groundwater contamination as the plume appears to be stable.

Following the review of the WDNR correspondence and data collected by D&C's consultant, St. John – Mittelhauser & Associates, Inc. (SM&A) and presented in the February 21, 2020 *Site Investigation / Remedial Action Options and Remedial Design Report*, UPRR requested that a contaminated soil excavation be considered as an alternative remedial action option within the UPRR ROW. Mr. Steven Swenson (SM&A) confirmed via e-mail correspondence on November 24, 2020 to Mr. Kevin Peterburs (UPRR) that a contaminated soil excavation had been accepted by the WDNR as an alternative remedial action within the UPRR ROW.

Golder conducted a topographic survey of the site on July 20, 2021. From this survey, a shoring review was conducted that determined shoring would be required to support the rail embankment during the excavation. It was determined that excavating within the embankment of the active rail line would present undesired risk and increased project cost. Therefore, to determine if the extent of direct contact standard soil exceedances extends as far west as SM&A initially assumed, Golder collected additional soil samples with a hand auger in October and November 2021 to delineate the extent of soil exceedances. Based on the results obtained, revised excavation limits are being proposed. The additional soil sample locations, analytical results, and proposed new excavation limits are shown in the attached figures.

This remedial action workplan for a contaminated soil excavation within the UPRR ROW is submitted as part of the Superior Linens site closure strategy on UPRR property only and does not address remedial actions associated with the adjacent Superior Linens property.

## **1.0 SITE LOCATION**

Site Name:	Superior Linens BRRTS #02-41-532649 Facility ID #241780880
Address:	5005 S. Packard Avenue, Cudahy, Wisconsin (Superior Linens) 3425 East Layton Avenue, Cudahy, Wisconsin, Parcel No. 6319999000 (UPRR ROW)
Location:	SE ¼ of the NW ¼ of Section 26, Township 6 North, Range 22 East Latitude: 42.9536959 North Longitude: -87.8609509 West

## 2.0 SITE CONTACTS

The property owner contact and address for the UPRR ROW property is as follows:

Mr. Kevin Peterburs Manager, Environmental Site Remediation Union Pacific Railroad Company 4823 N 119<sup>th</sup> Street Milwaukee, WI 53225 (414) 267-4164

The consultant contact and address for the UPRR ROW property is as follows:

Mr. Matthew Wilson, PG Project Engineer Golder Associates USA Inc. 1133 Quail Court, Suite 115 Pewaukee, WI 53072 (262) 212-4727

## 3.0 BACKGROUND INFORMATION

Golder has reviewed the following documents associated with the Superior Linens site:

- Site Investigation / Remedial Action Options and Remedial Design Report (RAORDR), SM&A, February 21, 2020
- Site Investigation/Remedial Options and Remedial Design Report Superior Health Linens 5005 South Packard Ave BRRTS 02-41-532649 FID 241780880 Letter, WDNR, June 3, 2020
- D&C Partners Response to WDNR's June 3, 2020 Correspondence Letter, SM&A, July 10, 2020
- Review of D&C Partners Response to WDNR's June 3, 2020 Correspondence Letter, WDNR, September 9, 2020

As part of the site investigation activities for the Superior Linens site, six soil borings (HP-1 through HP-6) were completed by SMA within the UPRR ROW stormwater ditch in 2016. According to the RAORDR, laboratory results of soils sampled from these borings reported a concentration of trichloroethene above the industrial direct contact residual contaminant level (IDC-RCL) criterion in soil boring HP-6 from the 2-3 feet below ground surface (bgs) interval. Concentrations of trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE) were reported above laboratory method detection limits (MDLs) in soil borings HP-1 and HP-2, but these concentrations do not exceed the applicable IDC-RCL criteria. Boring locations and soil sample laboratory results conducted by SMA are depicted in Attachment 1 – SM&A Figure 25, Proposed Engineered Barrier Over Samples Exceeding Industrial Direct Contact RCLs.

As part of Golder's delineation activities for the Superior Linens site, 28 soil borings (HA-1 through HA-28) were completed within the UPRR ROW stormwater ditch in October and November 2021 to address direct contact exceedance concerns. The soil boring locations and draft analytical results for HA1 through HA-21 are shown in Figure 1. Analytical data is considered in a draft condition as third party quality assurance and quality control checks are ongoing. HA-22 through HA-28, shown in Figure 2, are planned soil boring locations that are schedule to be conducted on November 23, 2021. IDC-RCL exceedances for TCE were found in HA-2, HA-4, HA-6, HA-8, HA-10, HA-16, HA-18, HA-20, and HA-21. Concentrations of TCE, PCE, DCE, and benzene were reported above laboratory MDLs in additional soil borings, but these concentrations do not exceed the applicable IDC-RCL criteria.

# 4.0 PROPOSED REMEDIAL ACTION

As approved by WDNR, UPRR will complete a contaminated soil excavation to address the existing industrial direct contact risk within the UPRR ROW stormwater ditch. This proposed remedial action addresses the risk identified within the UPRR ROW only and does not address remedial actions associated with the adjacent Superior Linens property.

## 4.1 Contaminated Soil Excavation

In accordance with the Wisconsin Administrative Code Chapter NR 724, Golder will complete a Design Report (NR 724.09) as well as Design Plans and Specifications (NR 724.11) detailing the remedial action within the UPRR ROW, engineering criteria, proposed schedule, and other pertinent information.

#### 4.1.1 Excavation Activities

The pre-construction survey conducted to generate the shoring report was utilized to support the design of the contaminated soil excavation. Clearing and grubbing of vegetation will occur to clear the excavation limits; the pre-construction survey does not indicate any trees with a diameter greater than 6 inches will need to be removed. The installation of silt fencing will occur around the excavation limits and along the pavement edge to minimize any incidental transportation of contaminated soil on site. The excavation of the soil within the excavation limits will be conducted to a depth of four feet below the ground surface. The excavated area will be backfilled with a suitable material, conducted with the material placed in 6-inch lifts that are compacted prior to the placement of the subsequent lift. The excavated limits will be restored with the placement of topsoil, grass seed, and biodegradable erosion control matting.

#### 4.1.2 Excavation Limits

As a basis for the soil excavation limits, Golder will utilize the results of the hang auger samples collected in October and November 2021. The eastern excavation limit will be the existing asphalt surface on the Superior Health Linens property that serves as a cap. The southern excavation limit will be defined by the hand auger samples HA-11, HA-12, HA-13, and HA-14 where no ID-RCL exceedances occurred. The western excavation limit will be defined by the hand auger samples HA-9, HA-7, HA-5, HA-3, HA-1, HA-15, HA-17, and HA-19 where no ID-RCL exceedances occurred. The western excavation limit will be used to define the excavation limits in the northern portion of the site. The excavation limits will be adjusted to contain the area identified as ID-RCL exceedances. The samples collected to date allow for the western and southern excavation limits to be defined.

## 4.2 Confirmation Soil Sampling

Confirmation soil sampling will be completed prior to backfilling the excavation. Soil samples will be collected from one location on each sidewall at two depths: 0-2 feet bgs and 2-4 feet bgs. One soil sample will be collected from the base of the excavation. Soil samples will be submitted to a laboratory for the analysis of trichloroethene.

## 4.3 Excavated Soil Characterization and Disposal

Excavated soil will be sampled for contaminants of concern and additional parameters as required by the licensed disposal facility. Appropriate documentation will be obtained prior to the transport and disposal of contaminated soil at a licensed facility.

## 5.0 CONSTRUCTION DOCUMENTATION REPORT

Following the contaminated soil excavation activities, Golder will complete a Construction Documentation Report (NR 724.15) for WDNR submittal detailing the remedial action executed within the UPRR ROW. Golder assumes that no long-term monitoring or operation and maintenance is required following the contaminated soil excavation.

Sincerely,

Golder Associates Inc.

Matthew Wilson, PG Project Geologist Mark A. Bergeon, PG Program Leader-Railroad Services, Associate

MJW/MAB

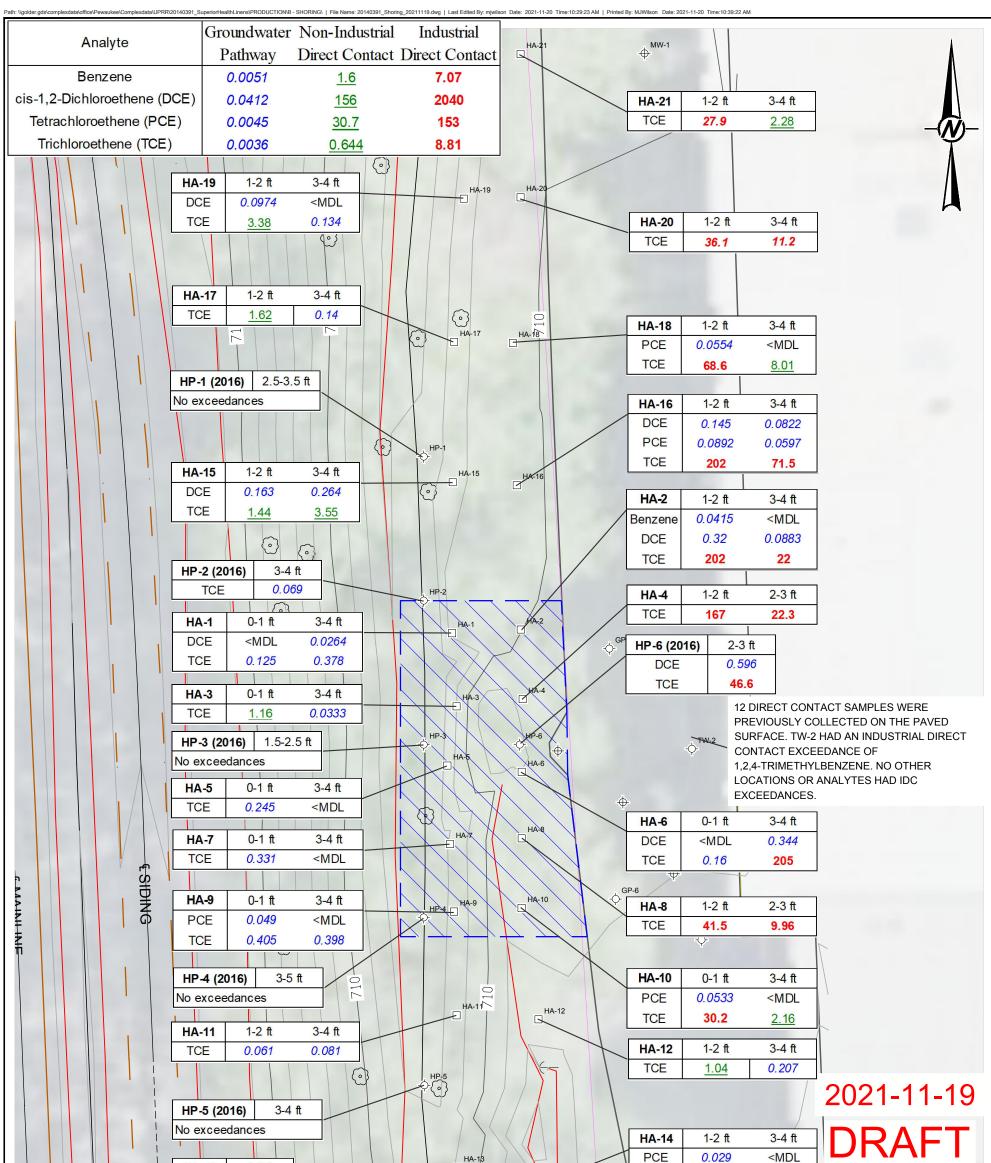
CC: Kevin Peterburs, UPRR

Figure 1 - Soil Analytical Results

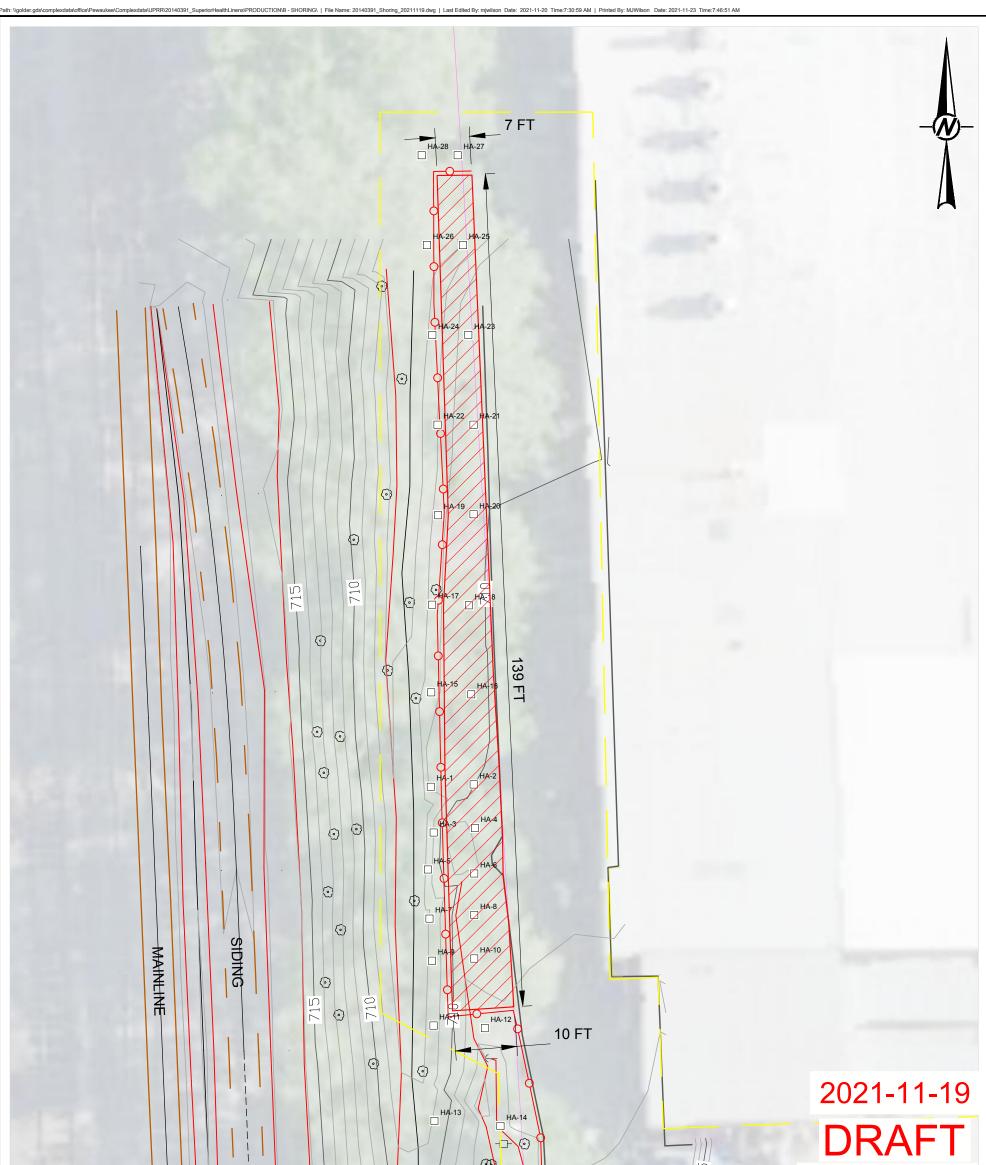


Attachments:

- Figure 1 Soil Analytical Results, Golder, 2021-11-19
- Figure 2 Excavation Limits, Golder, 2021-11-19
- Attachment 1 SM&A Figure 25 Proposed Engineered Barrier Over Samples Exceeding Industrial Direct Contact RCLs



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**ATTACHMENT 1** 

SM&A Figure 25 Proposed Engineered Barrier Over Samples Exceeding Industrial Direct Contact RCLs

