

Antea USA, Inc. 5910 Rice Creek Parkway, Suite 100 St. Paul, MN 55126 USA

MEMORANDUM

TO: John Hunt

Wisconsin Department of Natural Resources

223 E Steinfest Road Antigo, WI 54409

FROM: Antea Group, on behalf of BP Products North America Inc

DATE: 24 July 2020

RE: Semi Annual Report Submittal

Former Amoco Superior Terminal

Superior, WI 54880

(BRRTS #02-16-297979, BRRTS #02-16-117873, BRRTS #02-16-000331)

Dear Mr. Hunt,

Antea Group is submitting this memo to summarize field activities completed from January to June 2020 at the Former Amoco Terminal BRRTS #02-16-000331, and the Former Amoco Manifold/AST Area BRRTS #02-16-117873 and Barge Dock BRRTS #02-16-297979 in Superior, WI. Activities completed during this time will be further detailed in an annual report submitted for the site in January 2021. Annual report submission was requested on July 1, 2019, and verbal approval by the WDNR was provided in a subsequent phone conversation. The following summarizes field activities completed January 1 through June 30, 2020:

- Operation of the Phase II LNAPL recovery system was resumed on April 21, 2020 and ran with limited interruption through June 30, 2020. The system recovered 608.9 gallons of LNAPL through this operating period.
 - Phase II system recovery well MRW-6 was shut off on May 20, 2020 due to the limited thickness of LNAPL in the well and absence of LNAPL recharge when the well was pumped. LNAPL thickness have remained stable while being offline with thickness ranging from 0.12 to 0.15 feet. MRW-6 will continue to be monitored for changes in LNAPL thickness over time.
- A pneumatic pump was installed into LRMW-7 on May 20, 2020 and connected into the existing air line for the Phase II system for temporary product recovery. Since product recovery resumed, 18.4 gallons of LNAPL have been recovered from LRMW-7.
- A pneumatic pump was installed into MRW-3 on May 20, 2020 and connected into the existing airline for the Phase II system for temporary product recovery. Since product recovery has resumed, 21.7 gallons of LNAPL have been recovered from MRW-3.
- Semi-annual groundwater sampling was performed from May 26 to May 28, 2020 and included sampling of 18 wells for benzene, toluene, ethylbenzene, xylene, (BTEX), MTBE, TMBs, and naphthalene.
- A full site gauging of 118 wells was conducted in conjunction with semi-annual sampling.



- Four temporary wells were installed on June 9, 2020 to delineate groundwater east of the Barge Dock. Three temporary wells were installed on BNSF parcel #04-804-01004-00, and one temporary well was installed to the east of MWOW-5 on the northern edge of the Barge Dock.
 - Temporary monitoring wells were sampled via low-flow groundwater sampling on June 10, 2020 and samples were analyzed for BTEX, MTBE, TMBs, and naphthalene.
 - o Temporary wells were abandoned on June 22, 2020.
- Gauge and bail activities were conducted at 23 wells in the Barge Dock. A total of 94.45 gallons have been recovered through June 2020.
- Updates to the remediation electrical system to enhance safety and operability of the system were performed from March 31 to April 1, 2020.

A report summarizing 2020 field activities will be submitted by January 31, 2021. Please contact Antea Group (Jonathan.Zimdars@AnteaGroup.com, LayneKortbein@AnteaGroup.com) if you have any questions.

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Date: <u>7/24/2020</u>

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