



June 19, 2024

JIM SMITH  
BP REMEDIATION MANAGEMENT  
201 HELIOS WAY HELIOS PLAZA 6.370A  
HOUSTON TX 77079  
{electronically sent to [jim.smith2@bp.com](mailto:jim.smith2@bp.com)}

— SUBJECT: Site Investigation Report Not Approved  
Amoco Oil Terminal  
Winter Street, Superior, WI  
WDNR BRRTS # 02-16-000331

Dear Mr. Smith:

On October 20, 2023 a Site Investigation Report (SIR) was submitted to the Wisconsin Department of Natural Resources (DNR) along with form 4400-237, *Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request*, by the Antea Group (Antea) for the Amoco Oil Terminal site (Site). A review fee, as per Wisconsin Administrative (Wis. Admin.) Code chapter NR 749, was received on November 1, 2023 for a formal review of the SIR. This correspondence is in response to the review request.

Upon initial review of the SIR in November 2023, it was determined the SIR was administratively incomplete. On December 5, 2023 the DNR requested Antea to provide additional information to bring the SIR into compliance with requirements of Wis. Admin. Code NR. ch. 716, *Site Investigation*. A revised SIR was submitted to the DNR on April 5, 2024, this was the document reviewed.

### **Background**

The Site is the location of the former Amoco Oil Terminal petroleum storage facility. The Site consisting of above ground tanks (ASTs) with capacity of up to 50 million gallons, a tanker truck loading rack, a rail tanker car loading rack, piping and valving. The Amoco Oil Terminal facility operated for approximately 100 years and was decommissioned in the late 1990's. All ASTs and infrastructure was removed from the Site property. The property was subdivided and several parcels were sold and redeveloped.

Numerous petroleum discharge notifications were made to the DNR over the years. BP Products North America Inc. (BP) is the responsible party for investigation and remediation of the Site. The

Site has a Bureau of Remediation and Redevelopment Tracking System (BRRTS) number 02-16-000331. BP has been performing investigation and interim remedial action activities at the Site since 1985. To date numerous boring and wells were constructed as part of the investigative efforts. The efforts have found petroleum contaminated soil, large pools of light non-aqueous phase liquids (LNAPL) petroleum and a dissolved phase benzene plume of contaminated groundwater.

### **Review**

Wis. Admin. Code § NR 716.01 states the main purposes of a site investigation are to provide information necessary to:

- Define the source or sources of contamination.
- Define the nature, degree and extent of contamination.
- Determine whether any interim actions or remedial actions are necessary.

The Report was reviewed for compliance with Wis. Admin. Code ch. NR 716. The DNR has determined that the SIR is not in compliance with Wis. Admin. Code ch. NR 716 on the following issues:

- The delineation of the degree and extent of soil contamination is inadequate. The SIR utilizes the Wis. Admin. Code §. NR. 720.12, residual contaminant levels (RCLs) for protection from direct contact, as a standard for delineation of soil contamination. The delineation of soil contamination must utilize all applicable RCLs in determining the extent of contamination. The delineation must include utilizing the Wis. Admin. Code §. NR. 720.10 RCLs based on the protection of groundwater at the Site. Additionally, maps and figures must clearly identify where contamination in soil is located on the Site.
- The SIR shall include figures that clarify and support results and interpretations as per Wis. Admin. Code §. NR. 716.15. The figures depicting the petroleum hydrocarbon impacts to soil do not meet this requirement. Isoconcentration maps of hazardous substance concentrations in each environmental medium shall be submitted.
- Figures 19A, 19B and 19C do not include isoconcentration contours depicting the extent of dissolved phase contamination of groundwater. Maps and figures must clearly identify where residual contamination is located on the Site both horizontally and vertically as required by Wis. Admin. Code §§ NR 716.15, 716.17. Use solid lines when relying upon analytical data and dashed lines when you are inferring the data.

### **Other considerations**

- Any revised report should contain a more comprehensive Conceptual Site Model that includes where discharges occurred, fate and transport of contaminants, exposure pathways and receptors for a better understanding of current site conditions.
- A compilation of borings logs and well construction reports completed during the investigation of the Site was submitted to the DNR in October 2019. It is requested to revise this document to include well logs and/or well construction diagrams performed since the October 2019 submittal.

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Jim Smith  
Amoco Oil Terminal  
Superior, WI

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The DNR recognizes the great amount of investigative work and interim remedial actions conducted at the Sites. However, the DNR also acknowledges the extreme nature of the degree and extent of contamination to soil and groundwater at the Site and the need for remedial actions. The DNR reminds BP that they are the “responsible party” under Wis. Admin. Code § NR 700.03(51) and must follow applicable law to address the discharge of a hazardous substance to the environment or other environmental pollution. Wisconsin Statutes (“Wis. Stats.”) ch. 292 and Wis. Admin. Code chs. NR 700 through NR 754 provide specific requirements for appropriate response actions to address contamination, including emergency and interim actions, public information, site investigations, remedy selection, design, and operation of remedial action systems, and case closure.

The DNR has previously raised concerns of the lengthy time period this project has taken. The first milestone of an approved SIR has not been accomplished to date since initiating investigation efforts since the late 1980’s. The DNR stresses that BP should be more aggressive with the efforts to restore the environment in a reasonable amount of time as required by state statute and administrative code.

Your cooperation in this matter is appreciated. If you have any questions regarding the content of this letter, please feel free to contact me at (715) 701-9383 or by email at [john.t.hunt@wisconsin.gov](mailto:john.t.hunt@wisconsin.gov).

Sincerely,



John T. Hunt  
Hydrogeologist  
Remediation & Redevelopment Program

cc: Layne Kortbein, Antea ([layne.kortbein@anteagroup.us](mailto:layne.kortbein@anteagroup.us))