



October 21, 2014

Mr. Kevin Turner
USEPA Region 5
8588 Route 148
Marion, IL 62959

Ms. Michelle Kaysen
USEPA Region 5, Mail Code LU-9J
77 West Jackson Boulevard
Chicago, IL 60604

RE: Third Quarter 2014 Progress Report, Hartford Petroleum Release Site

Dear Ms. Kaysen and Mr. Turner,

Trihydro Corporation (Trihydro) is submitting this quarterly report summarizing the progress and status of activities performed at the Hartford Petroleum Release Site (Hartford Site) on behalf of Apex Oil Company, Inc. (Apex) for the time period from July 1 to September 30, 2014.

1. Apex submitted the following deliverables during the Third Quarter 2014:

- The *Second Quarter 2014 Progress Report* was submitted to the United States Environmental Protection Agency (USEPA) and the Illinois Environmental Protection Agency (Illinois EPA) on July 23, 2014 via email.
- The *Draft Additional Light Non-Aqueous Phase Liquid Recovery Partial Pilot Test Summary Report* was submitted to the USEPA and Illinois EPA on July 3, 2014 via standard mail.
- The *Draft Zone 1 Soil Vapor Extraction System Optimization Work Plan* was submitted to the USEPA and Illinois EPA on July 25, 2014 via standard mail.
- Posters summarizing the partial focused pumping pilot test and soil vapor extraction system were submitted to the USEPA and Illinois EPA for review on August 7, 2014 via email. These posters were prepared for the USEPA-led open house-style public meeting that took place on August 12, 2014.
- A response to the USEPA and Illinois EPA comments regarding the *Draft Additional Light Non-Aqueous Phase Liquid Recovery Partial Pilot Test Summary Report* with revised replacement pages was submitted to the USEPA and Illinois EPA on August 28, 2014 via email and standard mail.



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2. Apex submitted the following requests and notifications pertaining to activities at the Hartford Site:
 - The USEPA, Illinois EPA, and Hartford Working Group (HWG) were provided notification of initiation of a river stage triggered monitoring event (EBMP-21) and implementation of interim in-home event based monitoring activities on September 13, 2014.
 - The USEPA, Illinois EPA, and HWG were provided daily notifications regarding field activities and monitoring results between September 16 and September 23, 2014 during the river stage triggered monitoring event (EBMP-21). Notifications to USEPA, Illinois EPA, and HWG were conducted in accordance with the *Final Interim In-Home Effectiveness Monitoring Plan*, as well as the email dated February 7, 2014 outlining additional notification protocols during in-home monitoring.
 - The USEPA was provided an estimate of the gallons of light non-aqueous phase liquids (LNAPL) recovered via skimming and a summary of structures where mitigation measures was performed since October 1, 2013 via an email dated September 18, 2014. This information was provided following a request from the USEPA on September 16, 2014.

3. Apex participated in the following meetings and teleconferences during the Third Quarter 2014:
 - Teleconference with the USEPA and Illinois EPA to discuss the content of the posters and handouts to be presented at the open house-style public meeting.
 - An open house-style public meeting led by the USEPA at the Village of Hartford Community Center on August 12, 2014.
 - Meeting with USEPA on August 13, 2014 to discuss the *Zone 1 Soil Vapor Extraction Optimization Work Plan*.
 - Monthly teleconference with the HWG conducted on September 16, 2014.

4. Summary of In-Home Effectiveness Monitoring Activities:
 - Weekly in-home effectiveness monitoring was performed within twelve structures at the Hartford Site during the Third Quarter 2014.
 - Quarterly in-home effectiveness monitoring was performed within 31 structures at the Hartford Site from July 21 to August 4, 2014.
 - In-home screening was conducted within 26 structures at the Hartford Site in response to the river stage triggered monitoring event (EBMP-21) from September 13 to September 22, 2014.

5. Summary of West Birch Street Investigation Activities:
 - Monthly screening within select monitoring points and nested soil vapor monitoring wells installed on West Birch and West Arbor Streets was conducted on July 31 and August 29, 2014.



6. Summary of Additional LNAPL Recovery Pilot Test Implementation Activities:

- Preparation of the Supplemental Application for Permit for Construction /Operation Approval (WPC-PS-1) to include modifications detailed in the *Additional Light Non-Aqueous Phase Liquid Recovery Partial Pilot Test Summary Report*.
- Preparation of the Registration of Small Source Application to include modifications detailed in the *Additional Light Non-Aqueous Phase Liquid Recovery Partial Pilot Test Summary Report*.
- Preparation of an amended agreement with the Village of Hartford to discharge treated water to the Village of Hartford combined sewer system in accordance with modifications detailed in the *Additional Light Non-Aqueous Phase Liquid Recovery Partial Pilot Test Summary Report*.
- Preparation of an amended agreement with the City of Wood River to discharge treated water to the Wood River Wastewater Treatment Plant in accordance with modifications detailed in the *Additional Light Non-Aqueous Phase Liquid Recovery Partial Pilot Test Summary Report*.

7. Summary of Dissolved Phase Investigation Implementation Activities:

- Quarterly manual gauging of fluid levels within 378 groundwater monitoring wells and monitoring points was completed between August 4 and August 8, 2014.
- Monthly manual gauging of fluid levels in select groundwater monitoring wells and monitoring points was performed on July 24 and September 8, 2014.
- Groundwater samples were collected and analyzed from eleven monitoring wells between July 1-3, 2014, July 7-8, 2014, and September 11-12, 2014.

8. Activities Planned During the Fourth Quarter 2014 at the Hartford Site:

- Continue weekly in-home effectiveness monitoring within twelve structures in accordance with the *Final Interim In-Home Effectiveness Monitoring Plan*.
- Conduct river stage triggered monitoring in accordance with the triggers established within the *Final Interim In-Home Effectiveness Monitoring Plan*.
- Conduct quarterly in-home effectiveness monitoring in October 2014 in accordance with the *Final In-Home Interim Effectiveness Monitoring Plan*.
- Continue implementation of the dissolved phase investigation activities in accordance with the *Final Dissolved Phase Investigation Work Plan* including: (1) monthly and quarterly fluid level gauging, and (2) groundwater sampling.
- Implementation of the continued additional LNAPL recovery pilot test including: (1) submittal of the Supplemental Application for Permit for Construction /Operation Approval (WPC-PS-1) to the Illinois EPA, (2) submittal of the Registration of Small Source Application to the Illinois EPA, (3) completion of the amended agreements with the Village of Hartford and the City of Wood River, (4) site preparation activities including installation of security cameras, construction



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of stands for outdoor air monitoring, installation of fluid level and telemetry equipment in the Village combined sewer system, etc. (4) installation of three groundwater piezometers in Area A, Mobilization of the temporary groundwater treatment system, as well as initiation of the baseline monitoring (including fluid level gauging, SVE screening, LNAPL baildown testing, and groundwater sampling) will be conducted in accordance with groundwater elevation triggers.

- Coordination and installation of three additional SVE well nests along West Birch and West Arbor Streets as detailed in the *Zone 1 Soil Vapor Extraction System Optimization Work Plan*.
- Participate in a meeting with the USEPA and Illinois EPA on October 9, 2014 to discuss the multiphase remedy framework process.
- Participate in routine teleconferences and meetings with the USEPA, Illinois EPA, and HWG.

We appreciate your continued engagement with this project. If you have any questions or require any additional information, please contact me at (513) 429-7452.

Sincerely,

Paul Michalski, P.G.
Team Leader
Trihydro Corporation