

From: Ziegelbauer, Heather/MKE <Heather.Ziegelbauer@jacobs.com>
Sent: Tuesday, September 03, 2019 1:38 PM
To: Neal, Conor
Cc: Joseph Janeczek; Ryan Suennen; Jeff Danko; Mitchell, David/BOS; Finney, David/BOS; Carey, Angela J - DNR
Subject: RE: Tyco – Arsenic Migration Pathways Evaluation Work Plan - Response to EPA Comment 6

Conor,

On behalf of Tyco, this correspondence is in response to Comment 6 included in the July 19, 2019 conditional approval letter for the Arsenic Migration Pathways Evaluation Work Plan (WP). Below summarizes the reports that include information/data for the historical vibrating wire piezometer and paired monitoring wells. These reports have been compiled using the Jacobs File Transfer Tool (JFFT) and you will be sent a separate email with a link to download the files (note the files will have a time limit to download them). As part of the comment, details were also requested on how this data was used to come up with our 2019 locations. The data was not used to formulate locations (the location objectives/rationale is described in Table 3 of the work plan), however the data from the 2011-2012 efforts will be used as additional data with our 2019 Arsenic Migration Evaluation Pathways Work Plan activities evaluation to help determine the general range/average of gradients in the areas of interest.

- 8/15/2011 – Menominee River Groundwater Investigation Work Plan (VWP installation)
- 10/13/2011 – 3rd Quarter 2011 Quarterly Report – Summary Installation Table and VWP Boring Logs and Water Levels included as attachment
- 1/13/2012 – 4th Quarter 2011 Quarterly Report – Water level data in a table included as attachment
- 1/19/2012 – Tyco Fire Products LP Preliminary Vibrating Wire Piezometer Results
- 2/14/2012 – Hydraulic Gradient and Modeling Evaluation Technical Memorandum and Cover Letter
- 3/28/2012 – Gradient Testing and Monitoring Plan
- 4/20/2012 – Monthly Groundwater Extraction and Monitoring Report – March 2012
- 6/1/2012 – Monthly Groundwater Extraction and Monitoring Report – April 2012
- 9/7/2012 – Quarterly Groundwater Extraction and Monitoring Report – May through July 2012
- 1/2/2013 – Quarterly Groundwater Extraction and Monitoring Report – August through October 2012

Note that the response to Comment 5, the drilling SOPs portion, will follow at a later date once the contractor is selection is finalized; however, it looks like the drilling work won't occur until sometime in mid to late October based on initial subcontractor schedules we've received.

Thanks,

Heather Ziegelbauer, PE* | Jacobs | Project Manager | Global Environmental Solutions | +1.262.644.6167 | + 1.312.933.1017 mobile
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From: Neal, Conor <Neal.Conor@epa.gov>
Sent: Wednesday, July 17, 2019 10:47 AM
To: Ziegelbauer, Heather/MKE <Heather.Ziegelbauer@jacobs.com>; Angela Carey <angela.carey@wisconsin.gov>

Cc: Joseph Janeczek <joseph.janeczek@jci.com>; Ryan Suennen <ryan.suennen@jci.com>; Jeff Danko <jeff.danko-ext@jci.com>; Mitchell, David/BOS <David.Mitchell2@jacobs.com>; Finney, David/BOS <David.Finney@jacobs.com>

Subject: [EXTERNAL] RE: Tyco – Arsenic Migration Pathways Evaluation Work Plan

Heather,

Please see the attached conditional approval of the Arsenic Migration Pathways Evaluation Work Plan for the Tyco Fire Products LP site. Responses are not required for comments 1 through 4, nor is an updated work plan submission required, but additional information is requested for comments 5 and 6. Please provide the information at least 14 days in advance of the sampling event.

Please contact me should you have any questions.

Conor

Conor Neal

Geologist

Land, Chemical & Redevelopment Division

US EPA, Region 5, LR-16J

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From: Ziegelbauer, Heather/MKE <Heather.Ziegelbauer@jacobs.com>

Sent: Monday, June 24, 2019 5:19 PM

To: Neal, Conor <Neal.Conor@epa.gov>; Angela Carey <angela.carey@wisconsin.gov>

Cc: Joseph Janeczek <joseph.janeczek@jci.com>; Ryan Suennen <ryan.suennen@jci.com>; Jeff Danko <jeff.danko-ext@jci.com>; Mitchell, David/BOS <David.Mitchell2@jacobs.com>; Finney, David/BOS <David.Finney@jacobs.com>

Subject: Tyco – Arsenic Migration Pathways Evaluation Work Plan

Conor and Angie:

On behalf of Tyco, attached for your review is the Arsenic Migration Pathways Evaluation Work Plan for the Tyco Fire Products LP site, Marinette, WI (Tyco). The submittal was prepared based on requests by U.S. Environmental Protection Agency (EPA) and Wisconsin Department of Natural Resources and in response to the March 25, 2019 comments provided by EPA on the 2018 Five-Year Review, and as discussed during the May 13, 2019 meeting. The submittal describes the activities to be conducted to collect additional data and improve an understanding of the distribution of arsenic at and near the groundwater-surface water interface in the Menominee River, adjacent to the Tyco site.

Hard copies will be forwarded via regular mail. Please let us know if you have any questions.

Thanks,

Heather Ziegelbauer, PE*

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