

October 20, 2017

Mr. Conor Neal
Hydrogeologist
Land & Chemicals Division
US Environmental Protection Agency, Mail Code LU-9J
77 West Jackson Blvd
Chicago, IL 60604-3590

RE: Bi-Weekly Summary Report for Pump Down Program
Tyco Fire Products LP Site
Marinette, WI

Dear Mr. Neal:

The information provided herein is a summary of activities conducted at the Tyco Fire Products LP (Tyco) site associated with the Pump Down Program for the former Salt Vault and 8th Street Slip areas. The Pump Down Program is required as part of the Administrative Order on Consent between Tyco and U.S. Environmental Protection Agency (USEPA). This summary report covers the period from September 30, 2017 through October 13, 2017.

Summary of Work during Reporting Period

Work conducted during the reporting period included:

- Periodic pumping from the extraction wells in the former Salt Vault (EW-10, EW-11, EW-13, and EW-14) and 8th Street Slip (EW-8 and EW-9) continued during the reporting period. A total of approximately 28,720 gallons of water has been recovered from the pump down program area during the reporting period.
- Pumping operations ceased on October 9, 2017 due to issues presented below. It is unlikely that pump down activities will recommence this season.
- Manual water level readings at the designated monitoring points and extraction wells have been collected during the interim shut down period and since commencement of pumping. The manual water level readings and corrected elevations table is attached.
- Off-site transportation of recovered groundwater continued during the reporting period.

A summary of pumping and disposal operations for 2017 is provided in Table 1.

Table 1
Summary of Pump Down Operations (through October 13, 2017)

	Gallons Pumped	Gallons Treated at GWTS	Gallons Transported for Off Site Disposal
This Period	~28,720	~8,297	~37,340
Project To Date	~123,780	~32,868	~74,480

All quantities are estimated

Issues Encountered during Reporting Period

System testing ceased on October 6, 2017 due to the inability of the groundwater treatment plant to effectively treat the combined influent (pump down area water and groundwater from existing permanent extraction wells). The final influent rate tested was 2.0 gallons per minute from each pump down cell.

Vickery continues to have mechanical difficulties with injection wells resulting in limited ability to dispose of the extracted groundwater. The inability of Vickery to provide a schedule of disposal opportunities has also impacted the availability of trucks to transport the material for disposal. Tyco has procured Heritage Environment to transport and treat most of the remaining water at their facility in Indianapolis, IN; however, their availability is also limited due to other demands beyond our control.

Issues to Be Resolved Next Reporting Period

No issues require resolution during the next reporting period.

Anticipated Work Next Reporting Period

Tyco is currently working with Tradebe to evaluate an alternative treatment approach for the pump down groundwater. Bench testing has been successfully completed and planning is underway for conducting a 30-day pilot test at the site. Additional, limited pumping will likely occur once the test system is operational.

Tyco will complete off-site disposal of the pump down water remaining in the temporary storage tanks.

Manual water levels will be collected from the designated monitoring wells. Groundwater elevation data will be provided in the bi-weekly summary reports during the pump down period.

If you have any questions regarding this report, please contact Jeff Danko at 262-951-6888 or jdanko@tycoint.com.

Sincerely,



Jeff Danko
Environmental Project Geologist

Attachments:

Table 1 –Pump Down Program Groundwater Elevation Monitoring

cc: Kristin DuFresne – WDNR
Trevor Moen - WDNR
Joseph Janeczek – Johnson Controls
Richard Mator – Johnson Controls
Ryan Suennen – Tyco Fire Protection Products

