

February 13, 2020

Ms. Jennifer Dodds  
U.S. Environmental Protection Agency, Region 5  
Land, Chemicals and Redevelopment Division  
77 West Jackson Blvd, LR-16J  
Chicago, IL 60604-3590

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

Dear Ms. Dodds:

The information provided herein is a summary of activities conducted at the Tyco Fire Products LP (Tyco) site associated with the Pump Down Program (PDP) for the former Salt Vault and 8<sup>th</sup> Street Slip areas. The PDP is required as part of the Administrative Order on Consent between Tyco and the U.S. Environmental Protection Agency (USEPA). This summary report covers the period from January 8, 2020 through January 31, 2020.

### **Summary of Work during Reporting Period**

Work conducted during the reporting period included:

- Winterization of the PDP system was completed on January 8, 2020 at which time pumping operations resumed.
- Manual water level readings at the designated monitoring points and extraction wells were collected weekly during the reporting period. The average water level, based on the most recent water level measurements (January 31, 2020) during the reporting period, in the former Salt Vault was 579.89 feet above mean seal level (ft. AMSL), or 1.99 feet above the target level. The average water level in the former 8<sup>th</sup> Street Slip was 576.81 ft. AMSL, or 1.09 feet below the target level. A cumulative summary of manual water level readings and corrected elevations is attached as Table 1.
- During pumping operations, which were reinitiated on January 8, 2020, total groundwater recovery rates in the former Salt Vault area averaged 1.10 gallons per minute (gpm) from the four extraction wells which have been primarily operating

continuously during the reporting period with the exception that EW-13 and EW-14 operations have alternated at times as an electrical need was addressed. At this time, no water is being extracted from the wells within the former 8<sup>th</sup> Street Slip because the water levels in the area remain below the target level.

- Off-site transportation of recovered groundwater was conducted during the reporting period. Off-site disposal operations are primarily completed Monday, Wednesday and Friday of each week with generally one (1) truck (approximately 5,000 gallons) each of these days as needed to allow for continuous pumping from the extraction wells.

A summary of pumping and disposal operations for the 2020 season is provided below.

#### **Summary of Pump Down Operations (January 31, 2020)**

	Gallons Pumped	Gallons Treated at GWTS <sup>1</sup>	Gallons Transported for Off Site Disposal
This Period	~35,500	~0	~34,500
2020 Operations to Date	~35,500	~0	~34,500

All quantities are estimated

#### **Issues Encountered During Reporting Period**

No operational issues occurred during the reporting period with the exception that EW-13 and EW-14 operations have alternated at times as an electrical need was addressed. A short was identified in the heat trace line associated with EW-14 that was addressed and the extraction well was returned to service.

#### **Issues To Be Resolved During Next Reporting Period**

No issues that require resolution have been identified at this time.

#### **Anticipated Work During Next Reporting Period**

The PDP extraction system will continue to be operated on a continuous basis. Manual water level measurements will continue to be collected from the designated monitoring wells and extraction wells on at least a weekly basis.

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<sup>1</sup> GWTS – Groundwater Treatment System

If you have any questions regarding this report, please contact me at 414-524-3344 or [jeffrey.howard.danko@jci.com](mailto:jeffrey.howard.danko@jci.com).

Sincerely,



Jeffrey Danko  
EHS Manager – Environmental Remediation

Attachments:

Table 1 –Pump Down Program Groundwater Elevation Monitoring

cc: Angela Carey – WDNR  
Trevor Moen - WDNR  
Rick Bethel – Johnson Controls  
Ryan Suennen – Tyco Fire Products  
Heather Ziegelbauer – Jacobs  
Kirk Kapfhammer – Endpoint Solutions

**Table 1. 2020 Pump Down Program Groundwater Elevation Monitoring**  
*Tyco Fire Products LP, Marinette, Wisconsin*

Target Elevation	577.9
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Well ID	January 8, 2020		January 15, 2020		January 31, 2020	
	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)
MW001M	5.02	582.15	7.81	579.36	8.33	578.84
MW001S	5.06	582.20	NM	-	NM	-
MW002M-R	8.26	582.32	9.93	580.63	10.53	580.03
MW002S-R	8.11	582.21	9.78	580.54	10.08	580.24
MW031M	5.54	582.52	7.29	580.76	7.91	580.13
MW031S	6.37	582.53	8.40	580.50	8.85	580.05
MW113S	8.03	582.26	9.76	580.53	10.31	579.98
MW113M	7.57	582.73	9.79	580.51	10.07	580.23
MW115P	6.35	582.74	7.09	582.00	8.12	580.97
MW115S	6.68	582.32	8.38	580.62	9.44	579.56
MW116P	7.68	582.24	8.39	581.53	8.91	581.01
MW116S	7.63	582.29	9.24	580.67	9.97	579.94
MW119D	6.69	582.05	6.66	582.08	6.69	582.05
EW-3	NM	-	NM	-	NM	-
EW-10	4.91	582.88	24.64	563.11	23.64	564.11
EW-11	4.23	583.11	27.06	560.24	26.97	560.33
EW-13	2.85	582.97	4.46	581.35	24.18	561.56
EW-14	4.51	582.27	5.31	581.47	21.93	564.77
MW034M	11.51	576.74	11.33	576.92	11.14	577.11
MW034S	11.82	576.40	11.64	576.58	11.47	576.75
MW036M	12.50	576.09	12.24	576.35	12.02	576.58
MW036S	11.96	576.31	11.66	576.61	11.43	576.84
MW038M	11.34	576.35	11.01	576.68	10.84	576.85
MW038S	11.33	576.38	11.00	576.71	10.85	576.86
MW120D	6.94	581.71	6.26	582.39	6.25	582.40
MW120M	12.47	576.52	12.30	576.69	12.21	576.79
MW120S	12.02	576.57	11.85	576.74	11.85	576.74
EW-2	NM	-	NM	-	NM	-
EW-8	9.23	577.55	8.90	577.88	8.77	578.01
EW-9	8.63	577.07	8.42	577.28	8.33	577.37
MW004M	NM	-	NM	-	NM	-
MW004S	4.45	584.13	4.78	583.80	5.01	583.57
MW032M	5.29	582.94	5.29	582.94	5.34	582.89
MW032S	4.71	583.65	4.36	584.00	4.94	583.42
MW033M	3.51	585.31	3.79	585.03	3.97	584.84
MW033S	3.11	584.06	3.46	583.71	3.64	583.53
MW039M	NM	-	NM	-	NM	-
MW039S	1.92	584.17	2.22	583.87	2.42	583.67
MW035M	NM	-	NM	-	NM	-
MW035S	5.44	582.23	5.32	582.35	5.26	582.41
MW037M	NM	-	NM	-	NM	-
MW037S	4.69	582.39	4.70	582.38	4.70	582.38
SG4	NM	-	NM	-	NM	-
<b>Rough Target Elevation Calc SV*</b>		582.36		580.46		579.89
<b>Rough Target Elevation Calc 8S*</b>		576.42		576.66		576.81
<b>Target Elevation (NAVD88)</b>		577.90		577.9		577.9
<b>SV Variance</b>		4.46		2.56		1.99
<b>8S Variance</b>		-1.48		-1.24		-1.09

**Notes:**

Measurements were collected from top of casing (TOC). All depth measurements are in feet.

Elevations are reported in feet above mean sea level (AMSL) relative to the North American Vertical Datum 1988 (NAVD88)

Shaded = Well part of evaluation during Drawdown and Interim Phases

**Bold** = Well part of Target Elevation calculation

- = Information not applicable or not collected

Area Definitions - SV - Salt Vault, 8SS - 8th Street Slip

\*Wells identified for target elevation calculation are for during the drawdown and interim phases. Only wells outside the steepest portion of the cone of depression will be included in the calculation of the average elevations. The average elevation of all suitable measured wells will be considered the calculated elevation to compare against the target elevation. The number of post-drawdown phase wells used for this calculation may be reduced and will be determined based on results observed during the drawdown phase.

ID = identification; DTW = depth to water

NM = Not Measured; MW = Monitoring Well