

October 27, 2021

Mr. Christopher Black  
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 Mr. Black:

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 October 9, 2021 through October 22, 2021.

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

Work conducted during the reporting period included:

- Collection of manual water level readings at the designated monitoring points and extraction wells. The average water level, based on the most recent water level measurements (October 21, 2021) during the reporting period, in the former Salt Vault was 577.16 feet above mean sea level (ft. AMSL), or 0.74 feet below the target level. The average water level in the former 8<sup>th</sup> Street Slip was 577.63 ft. AMSL, or 0.27 feet below the target level. A cumulative summary of manual water level readings and corrected elevations is attached as Table 1.
- Pumping from the newly installed horizontal wells HW-01 and HW-02 has replaced operation of the four extraction wells.
- Groundwater was extracted intermittently from the wells (EW-8 and EW-9) within the 8<sup>th</sup> Street Slip during the reporting period as water levels remained below the target elevation.

- Operation of the newly installed horizontal wells was continuous during the reporting period. Water levels in the former Salt Vault were below the target elevation during this reporting period.

A summary of pumping and disposal operations for the 2021 season is provided below.

**Summary of Pump Down Operations (October 22, 2021)**

	Gallons Pumped	Gallons Treated at GWTS <sup>1</sup>	Gallons Transported for Off Site Disposal
This Period	~33,100	~0	~15,600
2021 Operations to Date	~858,650	~0	~835,550

All quantities are estimated.

**Issues Encountered During Reporting Period**

No issues were encountered during this reporting period that require resolution.

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

No operational issues were encountered during this reporting period that require resolution.

**Anticipated Work During Next Reporting Period**

At this time, permanent PDP extraction system operations within the area of the former Salt Vault and former 8<sup>th</sup> Street Slip have been reinitiated following the primary completion of the construction of the extraction system and connection to the newly constructed PDP building.

Finally, manual water level measurements will continue to be collected from the designated monitoring wells and extraction wells on 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 262-349-2528 or [jeffrey.howard.danko@jci.com](mailto:jeffrey.howard.danko@jci.com).

Sincerely,



Jeffrey Danko  
Director – Remediation Programs

Attachments:

Table 1 –Pump Down Program Groundwater Elevation Monitoring

cc: Angela Carey – WDNR  
Laura Gerold - WDNR  
Trevor Moen - WDNR  
Ryan Suennen – Tyco Fire Products  
Heather Ziegelbauer – Jacobs  
Kirk Kapfhammer – Endpoint Solutions Corp.







**Table 1. 2021 Pump Down Program Groundwater Elevation Monitoring**  
 Tyco Fire Products LP, Marinette, Wisconsin

Target Elevation	577.9
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Well ID	October 7, 2021		October 14, 2021		October 21, 2021	
	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	10.53	576.59	10.49	576.63	10.05	577.07
MW001S	10.74	576.46	10.80	576.40	10.32	576.88
MW002M-R	13.78	576.71	13.77	576.72	13.50	576.99
MW002S-R	13.74	576.53	13.72	576.55	13.42	576.85
MW031M	11.21	576.80	11.16	576.85	10.78	577.23
MW031S	12.42	576.45	12.36	576.51	11.93	576.94
MW113S	13.68	576.59	13.65	576.62	13.34	576.93
MW113M	11.60	578.67	11.59	578.68	11.40	578.87
MW115P	12.15	576.92	12.10	576.97	11.85	577.22
MW115S	12.49	576.47	12.44	576.52	12.04	576.92
MW116P	12.20	577.65	12.14	577.71	12.22	577.63
MW116S	13.34	576.52	13.30	576.56	12.94	576.92
MW119D	7.93	580.79	7.90	580.82	7.97	580.75
EW-3	NM	-	NM	-	NM	-
EW-10	10.52	576.53	10.51	576.54	10.09	576.96
EW-11	9.43	577.25	9.38	577.30	9.10	577.58
EW-13	8.59	576.52	8.56	576.55	8.20	576.91
EW-14	9.55	576.52	9.49	576.58	8.10	577.98
MW034M	10.46	577.76	10.29	577.93	10.44	577.78
MW034S	10.69	577.49	10.50	577.68	10.65	577.53
MW036M	11.27	577.32	11.11	577.48	11.35	577.24
MW036S	10.70	577.55	10.53	577.72	10.79	577.46
MW038M	8.53	577.61	8.33	577.81	8.71	577.43
MW038S	10.18	577.65	10.02	577.81	10.45	577.37
MW120D	7.49	581.11	7.42	581.18	7.72	580.88
MW120M	11.41	577.55	11.19	577.78	10.96	578.01
MW120S	11.04	577.49	10.86	577.67	10.30	578.23
EW-2	NM	-	NM	-	NM	-
EW-8	6.64	579.02	6.49	579.17	7.89	577.77
EW-9	5.92	579.10	5.72	579.30	5.90	579.12
MW004M	NM	-	NM	-	NM	-
MW004S	6.37	582.37	6.24	582.50	6.30	582.44
MW032M	6.66	581.70	6.53	581.83	6.62	581.74
MW032S	6.34	582.16	6.11	582.39	6.32	582.18
MW033M	5.30	582.43	5.15	582.58	5.26	582.47
MW033S	5.05	582.28	4.90	582.43	5.00	582.33
MW039M	NM	-	NM	-	NM	-
MW039S	3.81	582.39	3.70	582.50	3.74	582.46
MW035M	NM	-	NM	-	NM	-
MW035S	7.15	580.50	7.23	580.42	6.83	580.82
MW037M	NM	-	NM	-	NM	-
MW037S	6.62	580.44	6.21	580.86	6.25	580.82
SG4	6.20	581.25	5.90	581.55	6.00	581.45
<b>Rough Target Elevation Calc SV*</b>		576.78		576.80		577.16
<b>Rough Target Elevation Calc 8S*</b>		577.55		577.73		577.63
<b>Target Elevation (NAVD88)</b>		577.90		577.90		577.90
<b>SV Variance</b>		-1.12		-1.10		-0.74
<b>8S Variance</b>		-0.35		-0.17		-0.27

**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