

One Stanton Street Marinette, WI 54143-2542 Tele: 715-735-7411

March 4, 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 February 13, 2021 through February 26, 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 on February 17<sup>th</sup> and February 23<sup>rd</sup>, 2021. The average water level, based on the most recent water level measurements (February 23<sup>rd</sup>, 2021) during the reporting period, in the former Salt Vault was 578.93 feet above mean sea level (ft. AMSL), or 1.03 feet above the target level. The average water level in the former 8<sup>th</sup> Street Slip was 574.21 ft. AMSL, or 3.69 feet below the target level. A cumulative summary of manual water level readings and corrected elevations is attached as Table 1.
- During pumping operations, total groundwater recovery rates in the former Salt Vault area averaged 0.71 gallons per minute (gpm) from the four extraction wells and total recovery rates in the former 8<sup>th</sup> Streep Slip area averaged 3.72 gpm from the two extraction wells when operated. The extraction wells within the former Salt Vault have been continuously operating during the reporting period. Also, during this reporting period, operation of the extraction wells within the 8<sup>th</sup> Street Slip area

have been on a more intermittent basis to maintain water levels which are presently below target levels.

 Off-site transportation of recovered groundwater was conducted during the reporting period Monday through Friday of each week as needed to maintain operations.

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

	Gallons Pumped	Gallons Treated at GWTS <sup>1</sup>	Gallons Transported for Off Site Disposal				
This Period	~26,320	~0	~33,120				
2021 Operations to Date	~168,120	~0	~167,120				

## Summary of Pump Down Operations (February 26, 2021)

All quantities are estimated.

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

No operational issues were encountered during this reporting period. Policies and procedures are being evaluated on an ongoing basis to address the COVID-19 outbreak. Otherwise, no issues were encountered during the reporting period that require resolution.

### Issues To Be Resolved During Next Reporting Period

Pumping operations will be maximized in the area of the former Salt Vault to the extent possible. Finally, policies and procedures are being evaluated on an ongoing basis to address the COVID-19 outbreak.

# **Anticipated Work During Next Reporting Period**

The PDP extraction system consisting of the wells within the former Salt Vault will be operated on a continuous basis. Extraction wells within the former 8<sup>th</sup> Street Slip will be operated on an intermittent basis to maintain water levels below target elevations. Finally, manual water level measurements will continue to be collected from the designated monitoring wells and extraction wells on a weekly basis. If you have any questions regarding this report, please contact me at 262-349-2528 or jeffrey.howard.danko@jci.com.

Sincerely,

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Jeffrey Danko EHS Manager – Environmental Remediation

Attachments:

Table 1 – Pump Down Program Groundwater Elevation Monitoring

cc: Angela Carey – 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

			January 12, 2021		oundui	January 19, 2021		ry 27, 2021	rebrua	ary 3, 2021	February 10, 2021		February 17, 2021		February 23, 2021	
Well ID	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	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	8.08	579.04	8.24	578.88	8.25	578.87	8.27	578.85	8.35	578.77	9.04	578.08	9.10	578.02	8.79	578.33
MW001S	8.60	578.60	8.75	578.45	8.75	578.45	8.63	578.57	8.78	578.42	8.59	578.61	8.62	578.58	8.32	578.88
MW002M-R	11.75	578.76	11.38	579.14	11.50	579.02	11.48	579.04	11.43	579.09	11.72	578.79	11.79	578.72	11.48	579.04
MW002S-R	10.66	579.62	10.96	579.32	11.32	578.96	11.30	578.98	11.36	578.92	11.61	578.67	11.71	578.57	11.36	578.92
MW031M	9.10	578.93	8.87	579.16	8.84	579.19	8.64	579.39	8.94	579.09	9.14	578.88	9.13	578.90	8.74	579.29
MW031S	9.70	579.17	9.58	579.29	9.67	579.20	9.62	579.25	9.65	579.22	9.93	578.94	9.82	579.05	9.67	579.20
MW113S	11.63	578.65	11.23	579.05	11.30	578.98	11.26	579.02	11.32	578.96	11.57	578.71	11.65	578.63	11.30	578.98
MW113M	11.30	578.97	11.09	579.18	11.05	579.22	11.07	579.20	11.22	579.05	11.36	578.91	11.43	578.84	11.15	579.12
MW115P	10.06	579.02	10.25	578.83	10.24	578.84	10.21	578.87	9.83	579.25	10.05	579.03	10.30	578.78	9.98	579.10
MW115S	9.60	579.37	9.69	579.28	9.70	579.27	9.63	579.34	10.37	578.60	10.60	578.37	10.69	578.28	10.33	578.64
MW116P	10.33	579.53	10.20	579.66	10.30	579.56	10.26	579.60	10.37	579.49	10.51	579.35	10.65	579.21	10.51	579.35
MW116S	11.23	578.64	10.88	578.99	10.85	579.02	10.84	579.03	10.92	578.95	11.18	578.69	11.26	578.60	10.96	578.91
MW119D	7.14	581.58	7.23	581.49	7.25	581.47	7.21	581.51	7.38	581.34	7.42	581.30	7.56	581.16	7.55	581.17
EW-3	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
EW-10	24.12	562.90	25.03	561.99	24.81	562.21	24.96	562.06	24.93	562.09	24.35	562.67	24.72	562.30	23.78	563.24
EW-11	24.22	562.44	22.10	564.56	20.93	565.73	21.73	564.93	22.84	563.82	22.51	564.15	28.16	558.49	28.73	557.92
EW-13	25.37	559.68	24.30	560.75	22.13	562.93	22.63	562.43	21.91	563.15	21.79	563.27	26.54	558.50	26.75	558.29
EW-14	22.15	563.86	22.91	563.10	18.42	567.61	20.86	565.16	18.21	567.82	22.09	563.92	22.04	563.97	21.86	564.15
MW034M	13.36	574.86	13.27	574.95	14.10	574.12	14.06	574.16	14.26	573.96	13.43	574.79	13.40	574.82	13.98	574.24
MW034S	13.97	574.21	13.85	574.33	14.43	573.75	14.17	574.01	14.61	573.57	13.98	574.20	13.84	574.34	14.28	573.90
MW036M	14.31	574.22	14.48	574.05	14.74	573.79	14.65	573.88	14.88	573.64	14.81	573.72	14.40	574.13	14.52	574.01
MW036S	13.89	574.36	14.03	574.22	14.25	574.00	14.13	574.12	14.43	573.82	14.22	574.03	13.99	574.26	14.08	574.17
MW038M	11.75	574.39	11.91	574.23	12.23	573.91	12.16	573.98	12.38	573.76	12.09	574.05	NM	-	12.00	574.14
MW038S	13.55	574.27	13.73	574.09	14.06	573.76	13.93	573.89	14.21	573.61	13.91	573.91	13.65	574.17	13.85	573.97
MW120D	6.97	581.63	7.13	581.47	7.14	581.46	7.13	581.47	7.22	581.38	7.39	581.21	7.20	581.40	7.36	581.24
MW120M	14.20	574.71	14.20	574.71	14.36	574.54	14.28	574.63	14.54	574.36	14.40	574.50	14.31	574.60	14.32	574.59
MW120S	13.73	574.79	13.69	574.83	13.81	574.71	13.71	574.81	13.88	574.64	13.95	574.57	13.98	574.54	13.85	574.67
EW-2	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
EW-8	11.61	574.04	11.10	574.55	16.34	569.30	12.11	573.54	19.56	566.08	NM		11.52	574.13	19.87	565.77
EW-9	10.83	574.18	10.18	574.83	19.80	565.19	11.81	573.20	19.82	565.17	12.91	572.09	10.73	574.28	20.13	564.86
MW004M	10.85 NM		NM		NM		NM	-	NM	-	NM	-	NM	-	20.13 NM	
MW004S	6.31	582.43	6.21	582.53	5.93	582.81	6.02	582.72	6.29	582.45	6.42	582.32	6.59	582.15	6.47	582.27
MW004S MW032M	6.46	582.43	6.33	582.03	6.23	582.81	6.02	582.72	6.49	582.45	6.64	582.32	6.59	582.15	6.47	582.27
MW032M MW032S	6.20	581.90	6.10	582.03	5.79	582.13	5.91	582.06	6.49	581.87	6.22	581.72	6.42	581.64	6.45	581.91
	5.20	582.30	6.10 5.19	582.40	4.83	582.71	5.91 4.87	582.59	5.32	582.34	5.34	582.28	5.47	582.08	5.38	582.36
MW033M MW033S	5.20 4.95	582.53		582.54	4.83	582.91	4.87			582.41	5.34	582.39	-	582.26	5.38	
			4.90					582.62	4.96				5.20			582.22
MW039M	NM	-	NM	-	NM	-	NM 0.44	-	NM 0.77	-	NM	-	NM	-	NM	-
MW039S	3.75	582.45	3.68	582.52	3.38	582.82	3.41	582.79	3.77	582.43	3.85	582.35	4.04	582.16	3.91	582.29
MW035M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW035S	6.02	581.63	5.93	581.72	5.72	581.93	5.77	581.88	6.33	581.32	6.63	581.02	6.97	580.68	6.83	580.82
MW037M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW037S	5.41	581.66	5.35	581.72	5.05	582.02	5.11	581.96	5.76	581.31	6.01	581.06	6.40	580.67	6.19	580.88
SG4	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
Rough Target Elevat				579.07		579.02		579.07		578.91		578.66		578.62		578.93
Rough Target Elevat				574.43		574.07		574.18		573.92		574.22		574.41		574.21
Target Elevation	on (NAVD88	577.90		577.9		577.9		577.9		577.90		577.90		577.90		577.90
	SV Variance			1.17		1.12		1.17		1.01		0.76		0.72		1.03
	8S Variance	-3.42		-3.47		-3.83		-3.72		-3.98		-3.68		-3.49		-3.69

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 top 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