

July 8, 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 June 19, 2021 through July 2, 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 (July 1, 2021) during the reporting period, in the former Salt Vault was 577.95 feet above mean sea level (ft. AMSL), or 0.05 feet above the target level. The average water level in the former 8<sup>th</sup> Street Slip was 576.88 ft. AMSL, or 1.02 feet below the target level. A cumulative summary of manual water level readings and corrected elevations is attached as Table 1.
- No operation of the four extraction wells within the former Salt Vault (EW-10, EW-11, EW-13 and EW-14) occurred during this reporting period. Pumping from the newly installed horizontal wells HW-01 and HW-02 has been ongoing and has replaced operation of the four extraction wells.
- No groundwater has been extracted from the wells (EW-8 and EW-9) within the 8<sup>th</sup> Street Slip since April 6, 2021 when the pump testing associated with the newly

installed horizontal wells was initiated. Water levels in the 8<sup>th</sup> Street Slip remain well below the target elevation.

- Extraction of groundwater from the newly installed horizontal well HW-02, installed within the former Salt Vault, averaged 3.0 gallons per minute (gpm) over the reporting time period of June 19, 2021 through June 29, 2021, at which time PDP operations were temporarily suspended to facilitate moving of equipment to the recently constructed PDP building. Water levels in the former Salt Vault were primarily below the target elevation during this time with the most recent data indicating water levels slightly above the target elevation.
- Groundwater was also briefly extracted from horizontal well HW-01 during the reporting time period of June 28 and 29, 2021 in an effort to draw down the water levels within the former Salt Vault in anticipation of the temporary shutdown.
- 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.

**Summary of Pump Down Operations (July 2, 2021)**

	Gallons Pumped	Gallons Treated at GWTS <sup>1</sup>	Gallons Transported for Off Site Disposal
This Period	~47,700	~0	~51,300
2021 Operations to Date	~564,850	~0	~564,650

All quantities are estimated.

**Issues Encountered During Reporting Period**

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

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

### **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**

Pumping operations within the area of the former Salt Vault and former 8<sup>th</sup> Street Slip will likely be temporarily suspended until completion of the construction of the extraction system and connection to the newly constructed PDP building. At this time, permanent PDP extraction system operations are anticipated to begin by late July 2021.

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](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  
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	April 8, 2021		April 13, 2021		April 20, 2021		May 6, 2021		May 11, 2021		May 18, 2021		May 25, 2021		May 27, 2021		June 3, 2021		June 8, 2021		June 17, 2021		June 24, 2021		July 1, 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)	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)	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	8.24	578.88	9.37	577.75	9.52	577.60	9.51	577.61	9.66	577.46	9.36	577.76	9.10	578.02	9.48	577.64	9.43	577.69	9.78	577.34	9.64	577.48	10.30	576.82	9.34	577.78		
MW001S	8.45	578.75	9.63	577.57	9.71	577.49	9.73	577.47	9.89	577.31	9.57	577.63	9.31	577.89	9.69	577.51	9.67	577.53	10.02	577.18	9.83	577.37	10.54	576.66	9.50	577.70		
MW002M-R	11.53	578.99	12.65	577.85	12.82	577.68	12.83	577.67	13.02	577.48	12.69	577.81	12.44	578.07	12.84	577.66	12.77	577.73	13.09	577.41	12.95	577.55	13.63	576.86	12.65	577.85		
MW002S-R	11.42	578.86	12.62	577.66	12.75	577.53	12.73	577.55	12.94	577.34	12.60	577.68	12.38	577.90	12.79	577.49	12.70	577.58	13.04	577.24	12.90	577.38	13.52	576.75	12.56	577.72		
MW031M	8.85	579.18	10.06	577.96	10.61	577.40	10.26	577.76	10.31	577.71	9.90	578.12	9.71	578.31	10.26	577.76	10.15	577.87	10.42	577.60	10.33	577.69	10.96	577.05	10.11	577.91		
MW031S	9.94	578.93	10.93	577.94	11.67	577.20	11.35	577.52	11.39	577.48	10.98	577.89	10.69	578.18	11.39	577.48	11.32	577.55	11.47	577.40	11.51	577.36	12.02	576.85	11.22	577.65		
MW113S	11.33	578.95	12.53	577.74	12.69	577.58	12.68	577.59	12.86	577.41	12.52	577.75	12.28	577.99	12.72	577.55	12.62	577.65	12.98	577.29	12.80	577.47	13.41	576.86	12.51	577.76		
MW113M	9.78	580.50	10.47	579.81	10.83	579.44	10.57	579.71	10.71	579.57	10.55	579.73	10.35	579.93	10.74	579.54	10.64	579.64	10.89	579.38	10.88	579.39	11.25	579.02	10.62	579.66		
MW115P	8.62	580.46	9.04	580.04	10.28	578.80	11.62	577.45	10.73	578.35	10.47	578.61	10.22	578.86	10.71	578.37	10.51	578.57	10.85	578.23	10.76	578.32	11.28	577.80	10.98	578.10		
MW115S	10.07	578.90	11.27	577.70	11.68	577.29	11.41	577.56	11.54	577.43	11.18	577.79	10.96	578.01	11.47	577.50	11.36	577.61	11.67	577.30	11.55	577.42	12.16	576.80	11.27	577.70		
MW116P	9.53	580.34	10.32	579.54	10.75	579.11	10.99	578.87	11.08	578.78	11.02	578.84	10.89	578.97	11.12	578.74	11.04	578.82	11.18	578.68	11.20	578.66	11.29	578.57	11.43	578.43		
MW116S	10.96	578.91	12.13	577.73	12.28	577.58	12.32	577.54	12.48	577.38	12.17	577.69	11.93	577.93	12.34	577.52	12.28	577.58	12.58	577.28	12.45	577.41	13.11	576.75	12.12	577.74		
MW119D	7.70	581.02	7.71	581.01	7.77	580.95	7.85	580.87	7.87	580.85	7.89	580.83	7.88	580.84	7.88	580.84	7.89	580.83	7.91	580.81	7.93	580.79	7.93	580.79	7.92	580.80		
EW-3	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
EW-10	8.21	578.85	9.34	577.71	9.80	577.25	9.56	577.49	9.63	577.42	9.31	577.74	9.06	578.00	9.56	577.49	9.48	577.57	9.73	577.32	9.65	577.40	10.33	576.72	9.35	577.70		
EW-11	7.03	579.65	7.99	578.69	8.30	578.38	8.29	578.39	8.42	578.26	8.16	578.52	7.95	578.73	8.36	578.32	8.32	578.36	8.61	578.07	8.54	578.14	9.08	577.60	8.21	578.47		
EW-13	6.25	578.87	7.38	577.73	7.71	577.40	7.58	577.53	7.82	577.29	7.33	577.78	7.10	578.01	7.56	577.55	7.46	577.65	7.74	577.37	7.65	577.46	8.32	576.79	7.42	577.69		
EW-14	6.79	579.29	8.17	577.91	8.85	577.22	8.59	577.49	8.59	577.49	8.15	577.93	7.98	578.10	8.59	577.49	8.45	577.63	8.69	577.39	8.63	577.45	9.24	576.83	8.50	577.58		
MW034M	13.32	574.90	13.18	575.04	12.91	575.31	12.41	575.81	12.32	575.90	12.16	576.06	11.94	576.28	11.93	576.29	11.70	576.52	11.64	576.58	11.47	576.75	11.28	576.94	11.14	577.08		
MW034S	13.87	574.31	13.68	574.50	13.36	574.82	12.85	575.33	12.72	575.46	12.56	575.62	12.33	575.85	12.29	575.89	12.05	576.13	11.98	576.20	11.08	577.10	11.59	576.59	11.40	576.78		
MW036M	14.54	573.99	14.26	574.28	13.93	574.61	13.35	575.20	13.12	575.44	12.93	575.63	12.69	575.87	12.71	575.85	12.43	576.14	12.41	576.16	12.15	576.42	12.03	576.55	11.88	576.70		
MW036S	14.15	574.10	13.88	574.37	13.50	574.75	12.90	575.35	12.67	575.58	12.42	575.83	12.20	576.05	12.18	576.07	11.93	576.32	11.84	576.41	11.61	576.64	11.48	576.77	11.32	576.93		
MW038M	12.31	573.83	11.63	574.51	11.22	574.92	10.48	575.66	10.28	575.86	10.03	576.11	9.74	576.40	9.78	576.36	9.50	576.64	9.46	576.68	9.23	576.91	9.06	577.08	8.99	577.15		
MW038S	13.75	574.07	13.42	574.40	12.96	574.86	12.18	575.64	12.00	575.82	11.73	576.09	11.45	576.37	11.48	576.34	11.23	576.59	11.14	576.68	11.02	576.80	10.73	577.09	10.68	577.14		
MW120D	7.01	581.59	7.32	581.28	7.50	581.10	7.40	581.20	7.33	581.27	7.45	581.15	7.15	581.45	7.34	581.26	7.38	581.22	7.38	581.22	7.47	581.13	7.39	581.21	7.35	581.25		
MW120M	14.14	574.77	14.04	574.87	13.86	575.05	13.52	575.40	13.36	575.56	13.22	575.71	13.02	575.91	13.04	575.89	12.82	576.11	12.74	576.20	12.53	576.41	12.43	576.51	12.20	576.75		
MW120S	13.58	574.94	13.61	574.91	13.46	575.06	13.17	575.35	13.12	575.40	13.02	575.50	12.83	575.69	12.86	575.66	12.65	575.87	12.57	575.95	12.32	576.20	12.21	576.31	11.98	576.54		
EW-2	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
EW-8	11.54	574.11	11.44	574.21	10.83	574.83	8.64	577.02	8.43	577.23	8.23	577.43	7.96	577.70	7.99	577.67	7.68	577.98	7.64	578.02	NM	-	7.24	578.42	8.16	577.50		
EW-9	10.66	574.35	10.48	574.53	10.15	574.86	8.08	576.93	7.92	577.09	7.81	577.20	7.58	577.43	7.51	577.50	7.32	577.70	7.22	577.80	NM	-	6.84	578.18	6.63	578.39		
MW004M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW004S	5.13	583.61	4.93	583.81	5.01	583.73	4.75	583.99	4.92	583.82	5.16	583.58	4.97	583.77	5.17	583.57	5.08	583.66	5.35	583.39	5.59	583.15	5.65	583.09	5.24	583.50		
MW032M	5.75	582.61	5.69	582.67	5.96	582.40	5.68	582.68	5.83	582.53	5.93	582.43	5.72	582.64	6.03	582.33	5.82	582.54	6.11	582.25	6.26	582.10	6.38	581.98	5.88	582.48		
MW032S	5.12	583.38	4.92	583.58	5.01	583.49	4.73	583.77	4.86	583.64	5.12	583.38	5.06	583.44	5.21	583.29	5.20	583.30	5.34	583.16	5.66	582.84	5.80	582.70	5.33	583.17		
MW033M	4.02	583.73	3.82	583.94	3.97	583.78	3.71	584.05	3.87	583.89	4.10	583.65	3.93	583.82	4.13	583.62	4.03	583.72	4.31	583.44	4.54	583.20	4.71	583.03	4.16	583.59		
MW033S	3.76	583.57	3.57	583.76	3.69	583.64	3.41	583.92	3.52	583.81	3.82	583.51	3.66	583.67	3.87	583.46	3.77	583.56	4.06	583.27	4.28	583.05	4.45	582.88	3.91	583.42		
MW039M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW039S	2.78	583.42	2.38	583.82	2.47	583.73	2.20	584.00	2.39	583.81	2.62	583.58	2.42	583.78	2.63	583.57	2.53	583.67	2.83	583.37	3.05	583.15	3.08	583.12	2.68	583.52		
MW035M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW035S	5.62	582.03	5.58	582.07	5.79	581.86	5.65	582.00	5.82	581.83	5.96	581.69	5.86	581.79	6.11	581.54	5.98	581.67	6.57	581.08	7.05	580.60	7.05	580.60	5.75	581.90		
MW037M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW037S	4.96	582.11	4.88	582.19	5.01	582.06	4.91	582.16	5.05	582.02	5.24	581.83	5.17	581.90	5.43	581.64	5.46	581.61	5.99	581.08	6.59	580.47	6.51	580.56	5.18	581.89		
SG4	5.80	581.65	6.22	581.23	5.50	581.95	6.89	580.56	6.00	581.45	6.00	581.45	5.90	581.55	6.21	581.24	6.00	581.45	6.19	581.26	6.00	581.45	5.20	582.25	6.00	581.45		
<b>Rough Target Elevation Calc SV*</b>		579.08		577.97		577.68		577.80		577.66		577.98		578.22		577.76		577.84		577.54		577.65		577.04				