

July 29, 2020

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 8th 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 July 4, 2020 through July 17, 2020.

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 July 8th, 14th and 17th, 2020. The average water level, based on the most recent water level measurements (July 17, 2020) during the reporting period, in the former Salt Vault was 581.52 feet above mean seal level (ft. AMSL), or 3.62 feet above the target level. The average water level in the former 8th Street Slip was 576.27 ft. AMSL, or 1.63 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 and 8th Street Slip areas averaged 9.62 gallons per minute (gpm) from the six extraction wells which have been operating continuously during the reporting period with the exception of short-term cessation during the week / weekends until the holding tanks can be emptied.

- Off-site transportation of recovered groundwater was conducted during the reporting period Monday through Friday of each week.

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

Summary of Pump Down Operations (July 17, 2020)

	Gallons Pumped	Gallons Treated at GWTS ¹	Gallons Transported for Off Site Disposal
This Period	~74,000	~0	~74,500
2020 Operations to Date	~611,980	~0	~611,480

All quantities are estimated

Issues Encountered During 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

No issues that require resolution have been identified at this time with the exception that 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 Salt Vault and 8th Street Slip will be operated on a continuous basis. Finally, manual water level measurements will continue to be collected from the designated monitoring wells and extraction wells on a weekly basis.

¹ 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.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey Danko". The signature is fluid and cursive, with the first name "Jeffrey" and last name "Danko" clearly distinguishable.

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	April 29, 2020		May 6, 2020		May 13, 2020		May 20, 2020		May 27, 2020		June 2, 2020		June 9, 2020		June 15, 2020		June 24, 2020		July 1, 2020		July 8, 2020		July 14, 2020		July 17, 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)	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	7.47	579.70	7.56	579.61	7.76	579.41	6.80	580.37	6.40	580.77	6.52	580.65	6.46	580.71	6.11	581.06	6.96	580.21	7.16	580.01	7.06	580.11	5.28	581.89	6.80	580.37		
MW001S	6.45	580.81	6.61	580.65	6.89	580.37	5.76	581.50	5.16	580.37	5.44	581.82	5.41	581.85	5.09	582.17	5.89	581.37	6.01	581.25	5.98	581.28	5.39	581.87	5.65	581.61		
MW002M-R	9.60	580.97	9.79	580.78	9.98	580.58	8.92	581.66	8.31	582.27	8.59	581.99	8.52	582.06	8.30	582.28	9.09	581.48	9.21	581.36	9.19	581.38	8.61	581.97	8.87	581.71		
MW002S-R	9.30	581.02	9.65	580.67	9.93	580.39	8.91	581.41	8.20	582.12	8.50	581.82	8.40	581.92	8.15	582.17	8.96	581.36	9.09	581.23	9.02	581.30	8.48	581.84	8.75	581.57		
MW031M	7.00	581.05	7.15	580.90	7.39	580.66	6.31	581.74	5.73	582.33	5.96	582.10	5.93	582.13	5.60	582.46	6.45	581.60	6.64	581.41	6.54	581.51	6.11	581.95	6.22	581.83		
MW031S	7.90	581.00	7.81	581.09	8.08	580.82	6.69	582.21	6.40	582.50	6.52	582.38	6.54	582.36	6.50	582.40	6.90	582.00	7.17	581.73	7.07	581.83	6.98	581.92	6.99	581.91		
MW113S	9.45	580.84	9.60	580.69	9.81	580.48	8.72	581.57	8.09	582.20	8.44	581.85	8.29	582.00	8.08	582.21	8.91	581.38	9.04	581.25	9.02	581.27	8.38	581.91	8.69	581.60		
MW113M	9.47	580.83	9.71	580.59	9.92	580.38	7.72	582.58	7.45	582.85	8.94	581.36	7.64	582.66	7.52	582.78	8.34	581.96	9.00	581.30	9.55	580.75	7.83	582.47	8.95	581.35		
MW115P	6.53	582.56	6.64	582.45	7.03	582.06	6.01	583.08	5.92	583.17	5.88	583.21	5.99	583.10	6.18	582.91	6.33	582.76	6.66	582.43	6.77	582.32	6.78	582.31	6.86	582.23		
MW115S	9.11	579.89	8.80	580.20	9.03	579.97	7.95	581.05	7.32	581.68	7.63	581.37	7.56	581.44	7.31	581.69	8.01	580.99	8.15	580.85	8.11	580.89	7.12	581.88	7.33	581.67		
MW116P	8.05	581.87	8.14	581.78	8.38	581.54	7.29	582.64	7.24	582.69	7.14	582.79	7.29	582.64	7.49	582.44	7.45	582.48	7.67	582.25	7.62	582.30	7.76	582.16	7.76	582.16		
MW116S	8.59	581.33	9.27	580.64	9.50	580.41	8.41	581.51	7.92	582.00	8.09	581.83	8.05	581.87	7.40	582.52	8.55	581.37	8.70	581.22	8.67	581.25	8.09	581.83	8.30	581.62		
MW119D	6.80	581.94	6.75	581.99	6.75	581.99	6.67	582.07	6.62	582.12	6.59	582.15	6.52	582.22	6.45	582.29	6.45	582.29	6.41	582.33	6.39	582.35	6.38	582.36	6.37	582.37		
EW-3	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
EW-10	24.56	563.19	24.82	562.93	24.68	563.07	24.65	563.10	24.46	563.29	24.68	563.07	24.65	563.10	18.64	569.12	24.35	563.40	24.61	563.14	24.65	563.10	5.26	582.53	24.72	563.03		
EW-11	27.02	560.28	23.41	563.90	24.78	562.53	5.67	581.67	4.13	583.21	23.44	563.87	4.43	582.91	22.53	564.78	25.09	562.22	27.11	560.19	27.12	560.18	4.56	582.78	26.52	560.78		
EW-13	21.32	564.43	24.37	561.37	22.76	562.99	20.55	565.20	22.08	563.67	18.78	566.98	20.57	565.18	18.83	566.93	23.04	562.70	20.24	565.51	25.08	560.66	3.23	582.59	3.52	582.30		
EW-14	17.21	569.52	19.60	567.11	21.34	565.37	15.52	571.21	21.07	565.64	21.18	565.53	20.68	566.03	20.89	565.82	23.37	563.33	19.39	567.33	21.49	565.22	19.96	566.75	21.43	565.28		
MW034M	10.96	577.29	11.13	577.12	11.58	576.67	11.48	576.77	11.15	577.10	11.33	576.92	11.57	576.68	11.48	576.77	11.74	576.51	12.41	575.84	12.01	576.24	11.03	577.22	12.20	576.05		
MW034S	11.22	577.00	11.34	576.88	11.86	576.36	11.71	576.51	11.35	576.87	11.56	576.66	11.83	576.39	11.57	576.65	12.24	575.98	12.50	575.72	12.30	575.92	11.43	576.79	12.45	575.77		
MW036M	10.78	577.84	11.13	577.48	11.61	576.99	11.75	576.85	11.38	577.23	11.53	577.08	11.89	576.71	11.60	577.00	12.44	576.15	12.71	575.87	12.47	576.12	12.47	576.12	12.69	575.89		
MW036S	10.03	578.24	10.38	577.89	10.88	577.39	11.00	577.27	10.70	577.57	10.79	577.48	11.16	577.11	10.96	577.31	11.82	576.45	12.10	576.17	11.87	576.40	11.86	576.41	12.13	576.14		
MW038M	9.44	578.25	9.82	577.87	10.42	577.27	10.38	577.31	9.77	577.92	10.16	577.53	10.69	577.00	10.40	577.29	11.37	576.32	11.72	575.97	11.45	576.24	11.69	576.00	11.45	576.24		
MW038S	9.48	578.23	9.85	577.86	10.49	577.22	10.38	577.33	10.00	577.71	10.19	577.52	10.71	577.00	10.46	577.25	11.45	576.26	11.86	575.85	11.56	576.15	11.58	576.13	11.71	576.00		
MW120D	5.55	583.11	5.98	582.67	6.02	582.63	5.73	582.92	5.62	583.03	5.99	582.66	5.82	582.83	5.73	582.92	5.60	583.05	5.83	582.82	5.80	582.85	5.86	582.79	5.72	582.93		
MW120M	10.68	578.35	10.99	578.03	11.40	577.61	10.10	578.94	11.20	577.82	11.16	577.86	11.50	577.51	11.48	577.53	10.88	578.14	12.17	576.83	12.07	576.93	11.89	577.11	12.21	576.79		
MW120S	9.65	578.95	10.03	578.57	10.48	578.12	10.09	578.51	10.24	578.36	10.09	578.51	10.58	578.02	10.77	577.83	11.83	576.76	11.29	577.30	11.27	577.33	11.26	577.34	11.32	577.27		
EW-2	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
EW-8	10.80	575.98	11.14	575.63	11.86	574.91	12.64	574.13	11.61	575.16	12.03	574.74	12.47	574.30	11.81	574.96	9.82	576.96	11.52	575.25	13.20	573.57	13.22	573.55	13.90	572.87		
EW-9	18.78	566.90	20.50	565.18	19.24	566.44	19.92	565.76	19.42	566.26	19.97	565.71	20.14	565.54	19.62	566.06	15.71	569.98	13.89	571.80	20.19	565.49	8.22	577.48	20.44	565.24		
MW004M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW004S	4.32	584.26	4.60	583.98	4.84	583.74	3.93	584.65	4.12	584.46	3.89	584.69	4.47	584.11	4.63	583.95	4.43	584.15	4.89	583.69	5.10	583.48	4.88	583.70	4.53	584.05		
MW032M	4.88	583.35	5.10	583.13	5.36	582.87	4.45	583.78	4.68	583.55	4.71	583.52	5.07	583.16	5.14	583.09	4.95	583.28	5.22	583.01	5.34	582.89	5.18	583.05	4.88	583.35		
MW032S	4.53	583.83	4.75	583.61	5.08	583.28	4.25	584.11	4.30	584.06	4.46	583.90	4.97	583.39	5.07	583.29	4.44	583.92	5.39	582.97	5.72	582.64	7.30	581.06	7.09	581.27		
MW033M	3.39	585.43	3.60	585.22	3.84	584.98	2.88	585.95	3.12	585.71	2.97	585.86	3.54	585.28	3.68	585.14	3.45	585.37	3.91	584.90	4.10	584.71	3.87	584.95	3.52	585.30		
MW033S	3.13	584.04	3.29	583.88	3.56	583.61	2.56	584.61	2.75	584.42	2.67	584.50	3.21	583.96	3.35	583.82	3.15	584.02	3.62	583.55	3.81	583.36	3.61	583.56	3.21	583.96		
MW039M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW039S	1.76	584.33	2.07	584.02	2.32	583.77	1.38	584.71	1.59	584.50	1.37	584.72	1.94	584.15	2.11	583.98	1.83	584.26	2.34	583.75	2.54	583.55	2.33	583.76	1.93	584.16		
MW035M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW035S	4.66	583.01	5.02	582.65	5.13	582.54	4.74	582.93	4.75	582.92	4.78	582.89	4.79	582.88	4.78	582.89	4.81	582.86	5.24	582.43	4.82	582.85	4.83	582.84	4.86	582.81		
MW037M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW037S	4.02	583.06	4.44	582.64	4.52	582.56	4.15	582.93	4.09	582.99	4.29	582.79	4.24	582.84	4.21	582.87	4.15	582.93	4.19	582.89	4.19	582.89	4.24	582.84	4.23	582.85		
SG4	NM	-	6.25	582.60	6.20	582.65	5.90	582.95	5.72	583.13	6.20	582.65	6.00	582.85	5.90	582.95	6.80	582.05	6.04	582.81	7.00	581.85	6.12	582.73	6.00	582.85		
Rough Target Elevation Calc SV*	580.74		580.58		580.35		581.56		582.08		581.72		581.90		582.18		581.37		581.16		581.16		581.95		581.52		581.52	
Rough Target Elevation Calc 8S*	578.																											