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October 14, 2019

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

Subject: Quarterly Progress Report (July through September 2019)

Administrative Order on Consent (February 26, 2009)

Tyco Fire Products LP, Stanton Street Facility, Marinette, Wisconsin

WID 006 125 215

Dear Ms. Dodds:

Section VI, 21, b (Page 10) of the Administrative Order on Consent (AOC), dated February 26, 2009, requires Tyco Fire Products LP (Tyco) to submit quarterly progress reports to the U.S. Environmental Protection Agency (EPA) Region 5 and the Wisconsin Department of Natural Resources (WDNR) (collectively referred herein as the Agencies). The reports are required to document activities conducted as part of the Resource Conservation and Recovery Act (RCRA) corrective actions at the Tyco facility on Stanton Street in Marinette, Wisconsin. This report covers the period from July 1 through September 30, 2019 and presents a brief description of the work performed, data collected, problems encountered, and schedule of activities as required by the February 2009 AOC and subsequent agreements.

Work Completed During this Reporting Period

Operation of the groundwater collection and treatment system (GWCTS) continued through third quarter 2019. Attachment 1 summarizes the operational data, and Attachment 2 contains the Discharge Monitoring Reports.

Pump down operations with the temporary system continued through third quarter 2019 in the former Salt Vault and former 8th Street Slip areas under management of Endpoint Solutions. Details of the pump down operations are being reported to the Agencies in biweekly summary reports.

An initial vertical barrier wall (VBW) land side inspection and survey of the sheet pile VBW were completed on August 22, 2019. The underwater and riverside inspection of the sheet pile VBW as well as another concurrent check of the land side was completed September 24 and September 25, 2019. No major issues were identified, and the survey identified four dimple locations with movement of just over an inch, but based on the inspection, are not areas for concern. Several areas were identified that require some follow-up maintenance. This work will be completed by Tyco during the fourth quarter 2019 or spring 2020 and includes:

- One bolt area with a broken washer plate. This was the only location that appeared to have a small leak in the area where the plate was broken off. The broken washer will be addressed in fourth quarter.
- One tieback cover plate was cracked; however, no flow was observed. The cracked cover plate will be addressed in fourth quarter.

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- Several bolts along the Main Plant area appear to have a gap along the washer plate, however, no
 flow was observed. Construction drawings indicate an 1/8-inch thick neoprene donut washer was
 placed between the steel washer plate and sheet pile wall. The observed gaps are believed to be
 from the neoprene washers which were designed to prevent flow through the bolt hole (the washers
 could not be seen during the inspection). The bolts will continue to be monitored.
- Erosion on the landside from the high river levels. Erosional areas will be addressed in spring 2020 after the spring snow melt.
- Some sheet pile wall cap welds had cracks; note these are on top of the sheet pile wall and not a concern regarding VBW integrity. The cracks will continue to be monitored.
- Missing VBW markers along the slurry wall portion. Replacement of markers will be addressed in spring 2020 after the spring snow melt.
- Potential erosion/loss of fill between the Wetlands Area and the former 8th Street Slip between two
 generations of sheet pile wall; however, no flow was observed. There is a gap between the two walls
 approximately 2 inches wide. The upland area is paved, and hard material (likely grout) fills the gap
 along the top 30 to 48 inches with soft fill observed in the gap below. This seem was jet- grouted
 during installation of the sheet pile section in the Wetlands Area. The area will be addressed in fourth
 quarter.

The VBW inspection details will be provided in the annual report

The diving portion of *Arsenic Migration Pathways Evaluation Work Plan* field activities was completed from September 16 to September 20, 2019. The data will be compiled and provided with a summary of the follow-on drilling activities component of the work that is planned to start the week of October 14, 2019. All work activities will be provided in a memorandum that will be submitted by the end of first quarter 2020.

The staff gauge that had been damaged was fixed/reinstalled on or before July 2, 2019.

The five new shallow monitoring wells (MW107S, MW121S, MW122S, MW123S, and MW124S), one replacement monitoring well (MW118D-R), three repaired/adjusted monitoring wells (MW068S, MW118S and MW118M), and one reinstalled staff gauge were surveyed on August 22, 2019. The data will be compiled and provided in a drilling summary memorandum and included in the annual report.

Quarterly transducer data downloads that were initiated in June 2019 were completed on July 10, 2019 at the 12 remaining transducer locations. Manual groundwater elevation data were obtained at each transducer location where a download was completed for calibration of the data at the time of the installation/download.

The three transducers on the outside of the VBW (MW003S, MW102S, and MW100S) that were removed after the transducer download to prepare for upcoming per- and polyfluoroalkyl substances sampling have not yet been reinstalled. This sampling occurred in late August 2019, and the transducers are planned to be reinstalled during the upcoming semiannual groundwater sampling event in early October 2019. A non-vented transducer also was ordered for MW107D that will be installed to allow for SeriesSEE evaluation at this well. MW107D is a flush-mount monitoring well in a high traffic area that cannot be converted to a stickup. The non-vented transducer can be installed without the cable and allow for the well cap to remain in place, keeping possible surface water infiltration out of the well.

Additional Activities

The Wisconsin Pollutant Discharge and Elimination System (WPDES) variance permit remains on hold until the path forward on industrial outfall OF001 is determined. This delays moving forward with the conveyance system construction work for the permanent pump down program approach. Additional information requested by WDNR regarding GWCTS outfall OF003 were provided to WDNR on September 3, 2019. In addition, Tyco is evaluating stormwater management options in accordance with

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WDNR discussions that may significantly change the stormwater management system at the site. A meeting with WDNR was held on August 7, 2019 to discuss plans for a stormwater diversion model that Arcadis is preparing that will better evaluate specific stormwater management options for the site.

Data Collected

Extraction and treatment volumes, analytical testing, and discharge data are required as part of the WPDES permits obtained from WDNR for operating the GWCTS. The GWCTS operates under WPDES Permit WI-0001040-07-0. Attachment 2 includes the GWCTS monthly WPDES Discharge Monitoring Reports for June 2019 through August 2019. Attachment 1 contains additional data on the GWCTS operations.

Groundwater elevation data were collected from monitoring wells in the former 8th Street Slip and former Salt Vault areas in accordance with the pump down program requirements and are being reported to the Agencies in biweekly summary reports. Groundwater elevation data recorded by installed transducers during the third quarter of 2019 are being compiled and evaluated. The transducer data will be provided in the annual report. Sediment and surface water samples were collected during the diving portion of *Arsenic Migration Pathways Evaluation Work Plan* field activities. The data are not yet available and will be included in a memorandum.

Problems Encountered

Menominee River water levels have remained high through third quarter 2019. During the reporting period, the river water elevation has remained continuously in excess of the top of the VBW in the Wetlands Area of the site. Although less frequently than last reporting period, periodically, water levels were in excess at the weirs in the Main Plant area. This contributed to increased groundwater levels in those areas.

Also because of the high water levels, during the VBW survey, dimple points D-42 to D-53 (essentially the Wetlands Area or from just east of staff gauge SG-4 to the east) was not able to be surveyed nor was the wall able to be inspected from the land side. Portions of the slurry wall in the Wetlands Area also were not able to be inspected as well.

During the week of July 8, 2019, Tyco had three Jacobs Engineering Group Inc. staff onsite to support Tyco with troubleshooting the GWCTS operations and maintenance issues that has resulted in more limited operational run times. The items observed and how they are being addressed were summarized in an email sent to EPA on August 20, 2019. Monthly operational run times increased to 12 and 16 days in August and September (July was 4 days), but overall volume extracted was similar to or slightly less than the previous reporting period (extracted volume flow meters are believed to be inaccurate due to scaling, see Attachment 1). Reject volumes were also high and are anticipated to improve as operational improvements are made during the next reporting period. In addition, extraction wells EW-5 and EW-7 were not operational during the reporting period; Tyco is evaluating options to return the wells to service. The new Vibratory Shear Enhanced Processing (VSEP) equipment is onsite, and Tyco is working with the equipment manufacturer and local contractors to install the new equipment and evaluate the VSEP units to get the units back online. The VSEP units will help with reducing the amount of time it takes for the reject tank to fill, which recently has limited operational run time once the reject tanks are full.

Schedule of Upcoming Activities

The following is a summary of activities to be conducted during the next reporting period.

- Submit the quarterly progress report
- Initiate construction of new ChemDesign building and related changes to RCRA remedy components
- Submit report summarizing VBW inspection findings and address any inspection findings for the VBW



- Submit well installation summary memorandum
- Conduct fourth quarter 2019 semiannual barrier wall groundwater monitoring
- Conduct transducer data download activities
- Conduct drilling portion of Arsenic Migration Pathways Evaluation Work Plan field activities
- Continue pump down operations in the former Salt Vault and former 8th Street Slip areas
- Install new VSEP equipment and conduct system evaluation
- Complete maintenance on GWCTS extraction wells in an effort to improve flow rates in the Main Plant
- Conduct vapor intrusion assessment field activities (assuming timely approval from agencies is received)
- Continue evaluating WPDES variance permit options that will determine path forward on conveyance and GWCTS improvements

List of Key Correspondence and Document Submittals

Table 1. Documents Submitted

Quarterly Progress Report (July to September 2019) Tyco Fire Products LP Facility, Marinette, Wisconsin

Description of Submittal	Submitted To	Date Submitted
Revised Five-Year Technical Review Report and Response to Comments	EPA	July 12, 2019
Biweekly Summary Report for Pump Down Program	EPA	July 13, 2019
Quarterly Progress Report	EPA	July 15, 2019
Biweekly Summary Report for Pump Down Program	EPA	July 25, 2019
Biweekly Summary Report for Pump Down Program	EPA	August 7, 2019
Email Regarding Arsenic Migration Pathways Evaluation Work Plan Field Activities schedule	EPA	August 15, 2019
Email Responding to EPA Comment on Quarterly Report for Second Quarter Regarding the GWCTS Operation and Outcome from Week of July 8, 2019 Site Visit	EPA	August 20, 2019
Biweekly Summary Report for Pump Down Program	EPA	August 22, 2019
Email Response to EPA Comment 6 on the Arsenic Migration Pathways Evaluation Work Plan (information/data for the historical vibrating wire piezometer and paired monitoring wells)	EPA	September 3, 2019
Response to April 17, 2019 Outfall 003 Components of Additional Information Request for Tyco Arsenic Variance Package	WDNR	September 3, 2019
Biweekly Summary Report for Pump Down Program	EPA	September 11, 2019
Biweekly Summary Report for Pump Down Program	EPA	September 18, 2019
Technical Memorandum: Vapor Intrusion Assessment and Work Plan	EPA	September 27, 2019
Stormwater Improvement Construction Completion Report	EPA	September 27, 2019



Table 2. Correspondence from Agency

Quarterly Progress Report (July through September 2019) Tyco Fire Products LP Facility, Marinette, Wisconsin

Description of Correspondence	Submitted By	Date Submitted
Quarterly Progress Report – Email with Questions on GWCTS Operation	EPA	July 17, 2019
Conditional Approval Letter: EPA and WDNR Review of Arsenic Migration Pathway Evaluation Work Plan	EPA	July 17, 2019
Quarterly Progress Report – Follow-up Email with Question on GWCTS Operation and Site Visit	EPA	August 15, 2019
Conditional Approval Letter: Addendum to 2015 Barrier Wall Groundwater Monitoring Plan Update	EPA	September 4, 2019

If you have any questions or require additional information, please contact me at 262-644-6167 or Jeffrey Danko at 414-524-3344.

Respectfully Yours,

Jacobs Engineering Group Inc.

Huther J. Miegelbauer

Heather Ziegelbauer Project Manager

Attachments

1 Groundwater Collection and Treatment System Operation Summary

2 Discharge Monitoring Reports for the Groundwater Collection and Treatment System

cc: Angela Carey, WDNR

Jim Killian, WDNR

Ryan Suennen, Tyco Fire Products Joe Janeczek, Johnson Controls Jeff Danko, Johnson Controls

Mariel Carter, Stephenson Public Library

Document Control No.: D3235600.269

Attachment 1 Groundwater Collection and Treatment System Operation Summary

Groundwater Collection and Treatment System Operations for Tyco Fire Products LP, Marinette, Wisconsin, July 1 through September 30, 2019

Groundwater collection and treatment system (GWCTS) operations from July 1 through September 30, 2019 at the Tyco facility on Stanton Street in Marinette, Wisconsin are summarized below.

- The GWCTS operated for 4 days in July 2019, 12 days in August 2019, and 16 days in September 2019, for a total of 32 days.
- The precipitation recorded from the weather station in Marinette, Wisconsin was 17.61 inches of rain (http://www.ncdc.noaa.gov/cdo-web/datasets/GHCND/stations/GHCND:USC00475091/detail).
- Based on the recorded data and because the effluent meters are calibrated, Tyco believes the recorded extracted volumes are inaccurate and the flow meters are scaled and need cleaning. Tyco plans to clean the meters in October 2019. Based on the recorded data an estimated 81,657 gallons of groundwater were extracted (not including volumes extracted as part of the pump down program) from the site during the reporting period; however, this value is likely closer to the discharged volume noted in the next bullet. Table 1 lists the water volumes extracted from each area of the site for this quarter based on the recorded data.
- An estimated 51,362 gallons of water were discharged to the Menominee River as effluent under the WPDES permit.
- Approximately 99,200 gallons of reject water were produced during system operations and subsequently disposed of offsite.

Table 2. Extraction Well Data Summary (July through September 2019)

Groundwater Collection and Treatment System Tyco Fire Products LP Facility, Marinette, Wisconsin

Extraction Well	Gallons Run, Third Quarter 2019 (July 1 through September 30, 2019)
EW-1	20,163
EW-2	25
EW-3	14
EW-4	1,394
EW-5	0
EW-6	60,061
EW-7	0
Total	81,657*

*Extracted volume based on recorded meter readings; however, these values may be inaccurate because of scaling on the flow meters. Overall flow is anticipated to be closer to the discharged volume of 51,362 gallons.

Attachment 2 Discharge Monitoring Reports for the Groundwater Collection and Treatment System

Wastewater Discharge Monitoring Long Report

Facility Name: TYCO FIRE PRODUCTS LP

Contact Address: One Stanton St

Marinette, WI 54143

Facility Contact: Mike Elliott, EHS Manager

Phone Number: 715-735-7411

Reporting Period: 06/01/2019 - 06/30/2019

Form Due Date: 07/21/2019
Permit Number: 0001040

For DNR Use Only

Date Received:

DOC: 422916 FIN: 7245

FID: 438039470

Region: Northeast Region
Permit Drafter: Trevor J Moen
Reviewer: Nicole E Krueger

Office: Green Bay

	Sample Point	001	703	001	001	001
	Description	PRIOR TO	Intake Water	PRIOR TO	PRIOR TO	PRIOR TO
		MENOMINEE RIVER	Monitoring	MENOMINEE RIVER	MENOMINEE RIVER	MENOMINEE RIVER
	Parameter	211	280	487	374	373
	Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)	pH (Maximum)
	Units	MGD	ng/L	degF	su	su
	Sample Type	CONTINUOUS	GRAB	GRAB	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	0.05784		65	6.8	7.1
	2	0.04574		67	6.6	7.2
	3	0.12494		66	6.5	6.8
	4	0.12565		72	6.6	6.9
	5	0.12677		69	6.6	7.0
	6	0.12306		68	6.5	6.9
	7	0.12055		70	6.6	7.0
	8	0.07503		89	6.6	7.2
	9	0.05208		72	6.7	7.5
	10	0.12429		70	6.7	7.2
	11	0.14966		72	6.7	7.3
	12	0.22807		70	6.3	6.9
	13	0.09990		70	6.6	7.0
	14	0.23070		70	6.4	7.0
	15	0.06249		69	6.4	7.2
	16	0.04463		68	6.8	7.5
	17	0.11376	2.2	72	6.7	6.8
	18	0.07511		72	6.8	7.2
	19	0.03647		72	7.0	7.3
	20	0.07963		73	6.9	7.3
	21	0.05348		74	7.1	7.7
	22	0.00478		78	7.4	7.7
	23	0.04129		78	6.8	7.7
	24	0.16101		75	6.4	6.8
	25	0.07321		71	6.5	7.1
	26	0.11020		76	6.5	6.7
	27	0.14582		75	6.5	7.0
	28	0.05031		76	6.4	6.9
	29	0.0		81	6.9	7.9
	30	0.02828		79	7.2	7.7
	31					

Permit: 0001040

	Sample Point		703	001	001	001
	Description	PRIOR TO MENOMINEE RIVER	Intake Water Monitoring	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
		I WENOWINEE RIVER	Worldoning	WENOWINEE RIVER	MENOMINEE RIVER	WENOWINE RIVER
		244	280	487	074	070
	Parameter	211		-	374	373
	Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)	pH (Maximum)
	Units	MGD	ng/L	degF	su	su
Summary Values	Monthly Avg	0.092158333	2.2	72.633333333	6.683333333	7.183333333
	Monthly Total					
	Daily Max	0.2307	2.2	89	7.4	7.9
	Daily Min	0	2.2	65	6.3	6.7
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					11 0
	Daily Min				4 0	
	Rolling 12 Month Avg					
QA/QC Information	LOD		0.12			·
	LOQ		0.39			
	QC Exceedance	N	N	N	N	N
	Lab Certification		721026460			

	1					
	Sample Point	001	001	001	001	001
	Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
	Parameter	379	376	388	231	35
	Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Phosphorus, Total	Hardness, Total as CaCO3	Arsenic, Total Recoverable
	Units	minutes	Number	mg/L	mg/L	ug/L
	Sample Type	CONTINUOUS	CONTINUOUS	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	DAILY	DAILY	WEEKLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3			0.11	250	35
	4					
	5					
	7					
	8					
	9			0.57	260	39
	10			0.37	200	39
	11					
	12					
	13					
	14					
	15					
	16					
	17			0.14	240	48
	18					
	19					
	20					
	21					
	22					
	23					
	24			2.8	200	85
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001	001	
	Description	PRIOR TO MENOMINEE R	\/CD	PRIOR TO	N/ED	PRIOR TO		PRIOR TO	PRIOR TO	VED.
		MENOMINEE R	IVER	MENOMINEE R	IVER	MENOMINEE R	IVER	MENOMINEE RIVE	R MENOMINEE RI	VER
	Parameter	379		376		388		231	35	
	Description	pH Total Exceed Time Minute		pH Exceedand Greater Than Minutes		Phosphorus, T	otal	Hardness, Total as CaCO3	Arsenic, Tota Recoverable	
	Units	minutes		Number		mg/L		mg/L	ug/L	
Summary	Monthly					0.905		237.5	51.75	-
Values	Avg					0.000				
	Monthly Total									
	Daily Max					2.8		260	85	
	Daily Min					0.11		200	35	
	Rolling 12 Month Avg					0.2				
Limit(s) in Effect	Monthly Avg									
	Monthly Total	446	0							
	Daily Max			0	0				680	0
	Daily Min									
	Rolling 12 Month Avg					1	0			
QA/QC Information	LOD		Į		<u> </u>	0.12			2.1	
	LOQ					0.25			5	
	QC Exceedance	N		N		N		N	N	
	Lab Certification					99958001	0	999580010	999580010)

	Sample Point	001	001	001	001	001
	Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
	Parameter	35	147	147	87	152
	Description	Arsenic, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable	Cadmium, Total Recoverable	Cyanide, Amenable
	Units	lbs/day	ug/L	lbs/day	ug/L	ug/L
	Sample Type	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3	0.0364	13	0.01352	<0.49	<5.0
	4					
	5 6					
	7					
	8					
	9					
	10	0.04056	11	0.01144	0.49	
	11					
	12					
	13					
	14					
	15					
	16	0.0450	44	0.04045	0.50	
	17 18	0.0456	11	0.01045	0.56	
	19					
	20					
	21					
	22					
	23					
	24	0.1139	14	0.01876	1.8	
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001	001
	Description	PRIOR TO MENOMINEE RIV	/CD	PRIOR TO	/CD	PRIOR TO	\/CD	PRIOR TO	PRIOR TO
		WENOWINEE RIV	VER	MENOMINEE RIV	VER	MENOMINEE R	IVER	MENOMINEE RIVE	R MENOMINEE RIVER
	Parameter	35		147		147		87	152
	Description	Arsenic, Total Recoverable		Copper, Total Recoverable		Copper, Tota Recoverable		Cadmium, Total Recoverable	Cyanide, Amenable
		11000101000		. 10001014210		1100010100		11000101000	
	Units	lbs/day		ug/L		lbs/day		ug/L	ug/L
Summary	Monthly	0.059115		12.25		0.013542	5	0.7125	0
Values	Avg								
	Monthly Total								
	Daily Max	0.1139		14		0.01876		1.8	<5
	Daily Min	0.0364		11		0.01045		<0.49	<5
	Daily Wiln	0.0364		11		0.01045		<0.49	<5
	Rolling 12 Month Avg								
Limit(s) in Effect	Monthly Avg								
	Monthly Total								
	Daily Max	12	0	69	0	0.98	0		
	Daily Min								
	Rolling 12 Month Avg								
QA/QC Information	LOD			1.7	!			0.49	5
	LOQ			5				1	10
	QC Exceedance	N		N		N		N	N
	Lab Certification			999580010)			999580010	999580010

	Sample Point	001	001	101	101	101
	Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	112	280	211	457	342
	Description	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)
	Units	ug/L	ng/L	MGD	mg/L	mg/L
	Sample Type	GRAB	GRAB	CONTINUOUS	24 HR COMP	GRAB
	Frequency	MONTHLY	MONTHLY	DAILY	DAILY	2/WEEK
Sample Results	Day 1			0.01030	4.0	
	2					
	3			0.04621	3.5	<1.6
	4			0.03470	6.0	2.2
	5			0.03554	<1.9	
	6			0.02285	3.0	
	7			0.04102	3.0	
	8			0.01575	3.0	
	9					
	10			0.04932	<1.9	1.7
	11			0.03427	2.5	1.5
	12			0.04013	<1.9	
	13			0.03636	4.0	
	14			0.03537	3.5	
	15			0.01438	3.5	
	16					
	17		18	0.04957	3.5	<1.5
	18			0.04456	3.5	34.6
	19			0.02713	4.5	
	20			0.03496	7.0	
	21			0.01147	3.0	
	22					
	23					
	24	25		0.04600	<1.9	4.0
	25			0.01035	7.0	2.2
	26			0.04973	6.5	
	27			0.04889	9.0	
	28			0.03280	11.0	
	29					
	30					
	31					

	Sample Point	001	001	101	101	101
	Description	PRIOR TO	PRIOR TO	Metal Finishing	Metal Finishing	Metal Finishing
		MENOMINEE RIVER	MENOMINEE RIVER	Effluent	Effluent	Effluent
	Parameter	112	280	211	457	342
	Description	Chlorine, Total	Mercury, Total	Flow Rate	Suspended Solids,	Oil & Grease (Freon)
		Residual	Recoverable		Total	
	Units	ug/L	ng/L	MGD	mg/L	mg/L
Summary	Monthly	25	18	0.033550435	3.956521739	5.775
Values	Avg					
	Monthly					
	Total					
	Daily Max	25	18	0.04973	11	34.6
	Daily Min	25	18	0.0103	<1.9	<1.5
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg				31 0	26 0
	Monthly Total					
	Daily Max				60 0	52 0
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD	30	0.12		•	1.3
	LOQ	100	0.39			6
	QC Exceedance	N	N	N	N	N
	Lab Certification		721026460		999580010	999580010

Para Description Description Para Descri	rameter scription Units ple Type equency Day 1 2 3 4 5 6 7	Metal Finishing Effluent 87 Cadmium, Total Recoverable ug/L 24 HR COMP 2/WEEK <0.49 <0.49	Metal Finishing Effluent 133 Chromium, Total Recoverable ug/L 24 HR COMP MONTHLY <2.2 <2.2	Metal Finishing Effluent 315 Nickel, Total Recoverable ug/L 24 HR COMP 2/WEEK 4.7 4.0	Metal Finishing Effluent 553 Zinc, Total Recoverable ug/L 24 HR COMP 2/WEEK 52	Metal Finishing Effluent 155 Cyanide, Total ug/L GRAB MONTHLY <3.0
Description Descri	Units Inple Type Equency Day 1 2 3 4 5 6 7	Cadmium, Total Recoverable ug/L 24 HR COMP 2/WEEK <0.49	Chromium, Total Recoverable ug/L 24 HR COMP MONTHLY <2.2	Nickel, Total Recoverable ug/L 24 HR COMP 2/WEEK 4.7	Zinc, Total Recoverable ug/L 24 HR COMP 2/WEEK 52	Cyanide, Total ug/L GRAB MONTHLY
Sample Results Da	Units Inple Type Equency Day 1 2 3 4 5 6 7	ug/L 24 HR COMP 2/WEEK <0.49	ug/L 24 HR COMP MONTHLY <2.2	Recoverable ug/L 24 HR COMP 2/WEEK 4.7	ug/L 24 HR COMP 2/WEEK 52	ug/L GRAB MONTHLY
Sample Results Da	equency Day 1 2 3 4 5 6 7	24 HR COMP 2/WEEK <0.49	24 HR COMP MONTHLY <2.2	24 HR COMP 2/WEEK 4.7	24 HR COMP 2/WEEK 52	GRAB MONTHLY
Freq Sample Results Da	equency Day 1 2 3 4 5 6 7	2/WEEK <0.49	MONTHLY <2.2	2/WEEK 4.7	2/WEEK 52	MONTHLY
Sample Results Da	Day 1 2 3 4 5 6 7	<0.49	<2.2	4.7	52	
	2 3 4 5 6 7					<3.0
	3 4 5 6 7	<0.49	<2.2	4.0	63	<3.0
	4 5 6 7	<0.49	<2.2	4.0	63	<3.0
	5 6 7					ı -
	6 7					
	7		<u> </u>	_		
	8					
	~	<0.49	<2.2	2.5	64	
	9					
	10	<0.49	<2.2	2.5	72	
	11					
	12					
	13					
	14					
	15	<0.49	<2.2	3.7	77	
	16					
	17	<0.49	<2.2	4.9	120	
	18					
	19					
:	20					
:	21					
- 2	22					
	23					
7	24	<0.49	<2.2	5.0	73	
	25	<0.49	<2.2	4.7	75	
	26	-			-	
	27					
	28					
	28					
	28 29 30					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishir Effluent	ng	Metal Finishii Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng
		Lindent		Lindent		Lindent		Lilidelit		Lilident	
	Parameter	87		133		315		553		155	
		Cadmium, Tot	hal	Chromium, To	4-1	Nickel, Tota		Zinc, Total		Cyanide, Tot	h-1
	Description	Recoverable		Recoverable		Recoverable		Recoverable		Cyanide, 10	.aı
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0		0		4		74.5		0	
	Monthly Total										
	Daily Max	<0.49		<2.2		5		120		<3	
	Daily Min	<0.49		<2.2		2.5		52		<3	
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg	260	0	1710	0	2380	0	1480	0	650	0
	Monthly Total										
	Daily Max	690	0	2770	0	3980	0	2610	0	1200	0
	Daily Min										
	Rolling 12 Month Avg										
QA/QC Information	LOD	0.49	•	2.2	•	1.5	•	3.6	•	3	•
	LOQ	1		5		5		10		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	99958001	0	99958001	0	99958001	0	99958001	0	99958001	0

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	147	264	430	374	373
	Description	Copper, Total Recoverable	Lead, Total Recoverable	Silver, Total Recoverable	pH (Minimum)	pH (Maximum)
	Units	ug/L	ug/L	ug/L	su	su
	Sample Type	24 HR COMP	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS
	Frequency	2/WEEK	MONTHLY	MONTHLY	DAILY	DAILY
ample Results	Day 1	5.4	<1.3	<1.1	6.8	7.2
	2					
	3	8.9	<1.3	<1.1	7.2	7.6
	4				7.1	8.0
	5				7.0	7.9
	6				6.9	7.8
	7				7.0	7.2
	8	6.9	<1.3	1.1	6.4	7.2
	9					
	10	6.0	<1.3	<1.1	7.2	8.1
	11				6.5	7.4
	12				6.5	7.3
	13				6.6	7.4
	14				6.8	7.6
	15	3.8	<1.3	<1.1	6.8	7.8
	16		-			-
	17	4.6	<1.3	<1.1	6.5	7.2
	18				6.6	7.0
	19				6.7	7.8
	20				6.6	7.9
	21				6.8	8.8
	22					5.5
	23					
	24	6.7	<1.3	<1.1	6.8	7.7
	25	12	<1.3	<1.1	6.5	7.2
	26		1.0	***	6.1	8.4
	27				6.5	7.8
	28				7.2	9.0
	29				1.2	9.0
	30					
	31					
	ગ					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishin Effluent	ng	Metal Finishir Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng
	Parameter	147		264		430		374		373	
	Description	Copper, Tota Recoverable		Lead, Total Recoverable		Silver, Tota Recoverabl		pH (Minimur	n)	pH (Maximui	n)
	Units	ug/L		ug/L		ug/L		su		su	
Summary Values	Monthly Avg	6.7875		0		0.1375		6.7434782	61	7.7086956	52
	Monthly Total										
	Daily Max	12		<1.3		1.1		7.2		9	
	Daily Min	3.8		<1.3		<1.1		6.1		7	
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg	2070	0	430	0	240	0				
	Monthly Total										
	Daily Max	3380	0	690	0	430	0			11	0
	Daily Min							4	0		
	Rolling 12 Month Avg										
QA/QC Information	LOD	1.7		1.3	•	1.1	•				
	LOQ	5		2.5		2.5					
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010	0	99958001	0	99958001	0				

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	379	376	507	40	490
	Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Total Toxic Organics	Benzene	Tetrachloroethylene
	Units	minutes	Number	ug/L	ug/L	ug/L
	Sample Type	CALCULATED	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8 9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23 24					
	25					
	26					
ŀ	27					
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishi Effluent	ng	Metal Finishir Effluent	ng	Metal Finishin Effluent	g	Metal Finishing Effluent	9	Metal Finishin Effluent	g
		Lindent		Lilident		Lindent		Lilidelit		Lindent	
	Parameter	379		376		507		40		490	
	Description	pH Total Exceed	lance	pH Exceedand	200	Total Toxic Orga	nice	Benzene		Tetrachloroethyle	one
	Description	Time Minute		Greater Than Minutes		Total Toxic Orga	11103	Benzene		rendemorecary	SIIC
	Units	minutes		Number		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg										
	Monthly Total										
	Daily Max										
	Daily Min										
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg										
	Monthly Total	446	0	0	0						
	Daily Max					2130					
	Daily Min										
	Rolling 12 Month Avg										
QA/QC Information	LOD		•				•				
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

			1 101		1 404	
	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent				
	Parameter	500	561	200	508	285
	Description	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
	Sample Type	24 HR COMP				
OI- DI-	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	3					
	4					
	5					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14 15					
	16					
	17					
	18					
	19 20					
	21					
	22					
	23					
	24 25					
	26					
	27					
	28					
	29					
	30 31					
	31					

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent				
		Ellidelit	Ellidelit	Ellidelit	Ellident	Eilideild
	Parameter	500	561	200	508	285
	Description	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
Summary	Monthly					
Values	Avg					
	Monthly Total					
	Daily Max					
	Daily Wax					
	Daily Min					
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD	•		•		·
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	101	106	106	106	107
	Description	Metal Finishing		Future remedial action		Mercury Field Blank
		Effluent	ww	ww	ww	Results
	Parameter	167	211	35	457	280
	Description	Di-n-butyl phthalate (dibutyl phthalate)	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable
	Units	ug/L	gpd	ug/L	mg/L	ng/L
	Sample Type	24 HR COMP	CONTINUOUS	24 HR COMP	24 HR COMP	GRAB
	Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					<0.12
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101	106	106	106	107
	Description	Metal Finishing Effluent	Future remedial action ww	Future remedial action ww	Future remedial action ww	Mercury Field Blank Results
		Lindent	VV VV	VV VV	vv vv	resuits
	Parameter	167	211	35	457	280
	Description	Di-n-butyl phthalate	Flow Rate	Arsenic, Total	Suspended Solids,	Mercury, Total
	Description	(dibutyl phthalate)	Tiow Nate	Recoverable	Total	Recoverable
	Units	ug/L	gpd	ug/L	mg/L	ng/L
Summary Values	Monthly Avg					0
	Monthly Total					
	Daily Max					<0.12
	Daily Min					<0.12
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD	,				0.12
	LOQ					0.39
	QC Exceedance	N	N	N	N	N
	Lab Certification					721026460

	Sample Beint	003	003	003	003	003
-	Sample Point Description			Future remedial action		
	Description	dischg	dischg	dischg	dischg	dischg
	Parameter	211	457	35	374	373
	Description	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	pH (Minimum)	pH (Maximum)
ŀ	Units	MGD	mg/L	ug/L	su	su
	Sample Type	CONTINUOUS	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	WEEKLY	WEEKLY	DAILY	DAILY
Sample Results	Day 1					
	2					
	3					
}	5					
•	6					
ŀ	7					
	8					
İ	9					
	10					
	11					
	12					
	13					
	14	0.003895			7.1	7.2
-	15 16					
}	17	0.001950	2.5	<2.1	7.8	7.9
ŀ	18	0.001930	2.5	~2.1	7.4	7.6
ŀ	19	0.000120				
	20					
	21					
	22					
	23					
	24					
	25	0.004005	2.2	2.2	2.2	
	26	0.004685	3.0	2.3	6.3	6.4
-	27 28					
}	29					
}	30					
ł	31					

	Sample Point		003	003	003	003
	Description	Future remedial action discha	Future remedial action discha	Future remedial action dischg	Future remedial action dischq	Future remedial action discha
		uiscrig	uiscrig	uiscrig	discrig	discrig
	Davamatav	244	457	35	274	272
	Parameter	211 Flow Rate	457 Suspended Solids,	Arsenic, Total	374 pH (Minimum)	373 pH (Maximum)
	Description	Flow Rate	Total	Recoverable	pH (Minimum)	ph (Maximum)
	Units	MGD	mg/L	ug/L	su	su
Summary Values	Monthly Avg	0.00341475	2.75	1.15	7.15	7.275
	Monthly Total					
	Daily Max	0.004685	3	2.3	7.8	7.9
	Daily Min	0.00195	2.5	<2.1	6.3	6.4
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max			680 0		11 0
	Daily Min				4 0	
	Rolling 12 Month Avg					
QA/QC Information	LOD			2.1		
	LOQ			5		
	QC Exceedance	N	N	N	N	N
	Lab Certification		999580010	999580010		

	Sample Point	003	003
	Description	Future remedial action dischg	Future remedial action dischg
		2-2	2=2
	Parameter	379	376
	Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes
	Units	minutes	Number
	Sample Type	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	DAILY
Sample Results	Day 1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
	16		
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		

	Sample Point	003		003		
	Description	Future remedial a	ction			
		dischg		dischg		
	Parameter	379		376		
	Description	pH Total Exceeda		pH Exceedance		
		Time Minutes		Greater Than 60 Minutes		
	Units	minutes		Number		
Summary	Monthly					
Values	Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total	446	0			
	Daily Max			0	0	
	Daily Min					
	Rolling 12 Month Avg					
04/00						
QA/QC Information	LOD					
	LOQ					
	QC Exceedance	N		N		
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)
1. Based on my inquiry of the person or persons directly responsible for managing compiliance with the permit limitation for TTO I certify that to the best of my knowledge and belief no dumping of concentrated toxic organics into the wastewaters has
2. occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the department.
General Remarks
OF003 did not run for the first two weeks of the month due to maintenance issues so, there were no samples taken
Laboratory Quality Control Comments
Submitted by Anne Fleury(afleury16) on 7/15/2019 8:28:11 AM



eReport Certify - TYCO FIRE PRODUCTS LP - 465255

Facility Name

TYCO FIRE PRODUCTS LP

Form Type

Wastewater Discharge Monitoring Long Report

DOC ID

429800

Reporting Period

7/1/2019 to 7/31/2019

Enter Certification Code

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E-Mail was sent to

afleury@tycoint.com

Return To List

Certification complete.

The Official Internet site for the Wisconsin Department of Natural Resources

101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

Questions or comments about this e-form : Contact Us

Wastewater Discharge Monitoring Long Report

Facility Name: TYCO FIRE PRODUCTS LP

Contact Address: One Stanton St

Marinette, WI 54143

Facility Contact: Mike Elliott, EHS Manager

Phone Number: 715-735-7411

Reporting Period: 07/01/2019 - 07/31/2019

Form Due Date: 08/21/2019 Permit Number: 0001040

For DNR Use Only

Date Received:

DOC:

429800

FIN:

7245

FID:

438039470

Region: Permit Drafter: Northeast Region Trevor J Moen

Reviewer:

Nicole E Krueger

Office:

Milwaukee

			700			T
	Sample Point	001 PRIOR TO	703 Intake Water	001 PRIOR TO	001 PRIOR TO	001 PRIOR TO
	Description	MENOMINEE RIVER	Monitoring	MENOMINEE RIVER	MENOMINEE RIVER	MENOMINEE RIVER
	Parameter	211	280	487	374	373
	Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)	pH (Maximum)
	Units	MGD	ng/L	degF	su	su
	Sample Type	CONTINUOUS	GRAB	GRAB	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	0.16648		75	6.3	7.4
	2	0.11357		86	6.2	7.8
	3	0.06099		75	6.8	7.3
	4	0.01183		81	7.1	7.7
	5	0.00409		83	7.2	7.5
	6	0.00746		79	7.1	7.6
	7	0.05277		81	7.1	7.7
	8	0.12284		76	7.0	7.2
	9	0.12369		79	7.0	7.6
	10	0.13625		81	6.8	7.6
	11	0.12487	1.9	79	6.8	7.0
	12	0.05057		79	6.5	7.1
	13	0.0		79	6.5	7.4
	14	0.36364		79	6.4	7.7
	15	0.17634		80	6.3	7.0
	16	0.10685		79	7.1	7.2
	17	0.09964		79	7.3	7.5
	18	0.11360		93	7.1	8.2
	19	0.28607		80	6.9	8.0
	20	0.03147		79	6.8	7.4
	21	0.01722		81	7.3	7.6
	22	0.08145		76	7.1	7.7
	23	0.19585		78	6.8	7.2
	24	0.24520		78	6.5	7.2
	25	0.18722		81	6.7	7.0
	26	0.20266		80	6.8	7.4
	27	0.06050	***************************************	81	7.2	7.6
	28	0.14846		85	7.5	7.7
	29	0.17403		77	6.8	6.9
	30	0.14045		75	6.9	7.5
	31	0.09082		75	6.8	7.1

Wastewater Discharge Monitoring Form
Facility Name: TYCO FIRE PRODUCTS LP
Reporting Period: 07/01/2019 to 07/31/2019

Permit: 0001040 DOC: 429800

	Sample Point	001	703	001	001	001	
	Description	PRIOR TO MENOMINEE RIVER	Intake Water Monitoring	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	
	Parameter 211		280	487	374	373 pH (Maximum)	
	Description	Flow Rate	Mercury, Total Temperature Recoverable		pH (Minimum)		
	Units	MGD	ng/L	degF	su	su	
Summary Values	nary Monthly 0.119254194		1.9	79.64516129	6.861290323	7.44516129	
	Monthly Total						
	Daily Max	0.36364	1.9	93	7.5	8.2	
	Daily Min	0	1.9	75	6.2	6.9	
	Rolling 12 Month Avg						
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max					11 0	
	Daily Min				4 0		
	Rolling 12 Month Avg						
QA/QC Information	LOD		0.12				
	LOQ		0.39				
	QC Exceedance	N	N	N	N	N	
	Lab Certification		721026460				

Ī	Sample Point	001	001	001	001	001
	Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
ŀ	Parameter	379	376	388	231	35
	Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Phosphorus, Total	Hardness, Total as CaCO3	Arsenic, Total Recoverable
ľ	Units	minutes	Number	mg/L	mg/L	ug/L
	Sample Type	CONTINUOUS	CONTINUOUS	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	DAILY	DAILY	WEEKLY	MONTHLY	MONTHLY
Sample Results	Day 1			0.20	280	40
Ī	2					
Ī	3					
	4					
	5					
Ī	6					
	7					
Ī	8			0.12	340	29
ļ	9					
ţ	10					
Ī	11					
Ī	12				***************************************	
	13				***************************************	
ŀ	14					
ľ	15		4	0.41	120	71
Ī	16		, , , , , , , , , , , , , , , , , , ,			
Ī	17					
	18					
Ţ	19					
Ī	20					
Ī	21					
ļ	22			0.21	380	88
ļ	23					
ľ	24					
ľ	25					
ļ	26					
ļ	27					
ļ	28					
f	29					
ļ	30					

	Sample Point	Parameter 379 PRIOR TO PRIOR TO MENOMINEE RIVER PRIOR TO MENOMINEE RIVER		001		001	001			
	Description				PRIOR TO MENOMINEE RIVER 388 Phosphorus, Total		PRIOR TO MENOMINEE RIVE	PRIOR TO MENOMINEE RIVER		
	Parameter						231	35		
	Description			Greater Than 60			Hardness, Total as CaCO3	Arsenic, Total Recoverable		
	Units	minutes		Number	Number		mg/L		ug/L	
Summary Values	Monthly Avg					0.235		280	57	
	Monthly Total									
l.	Daily Max					0.41		380	88	
	Daily Min					0.12		120	29	
	Rolling 12 Month Avg					0.2				
Limit(s) in Effect	Monthly Avg									
	Monthly Total	446	0							
	Daily Max			0	0				680	0
	Daily Min	***************************************								
	Rolling 12 Month Avg					1	0			
QA/QC Information	LOD					0.024			2.1	
	LOQ					0.05			5	
	QC Exceedance	N		N		N		N	N	·
	Lab Certification					99958001	10	999580010	99958001	0

	Sample Point	001	001	001	001	001
	Description	PRIOR TO	PRIOR TO	PRIOR TO	PRIOR TO	PRIOR TO
	·	MENOMINEE RIVER	MENOMINEE RIVER	MENOMINEE RIVER	MENOMINEE RIVER	MENOMINEE RIVER
	Parameter	35	147	147	87	152
	Description	Arsenic, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable	Cadmium, Total Recoverable	Cyanide, Amenable
	Units	lbs/day	ug/L	lbs/day	ug/L	ug/L
	Sample Type	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1	0.0556	13	0.01807	0.99	<5.0
	2					
	3					
	4		AND THE RESERVE OF THE PERSON			
	5					
	6					
	7	0.00050	17	0.04704	0.40	
	8	0.02958	17	0.01734	0.49	•
	9 10					
	11					
	12					
	13					
	14					
	15	0.10437	12	0.01764	1.5	
	16				,,,	
	17					
	18					
	19					
	20					
	21					
	22	0.05984	16	0.01088	1.6	
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001	001
	Description	PRIOR TO MENOMINEE RI	VER	PRIOR TO MENOMINEE RI	VER	PRIOR TO MENOMINEE R		PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
	Parameter	35	····	147		147	····	87	152
	Description	Arsenic, Tota Recoverable		Copper, Tota Recoverable		Copper, Tot Recoverabl	al e	Cadmium, Total Recoverable	Cyanide, Amenable
	Units	lbs/day		ug/L		lbs/day		ug/L	ug/L
Summary Values	Monthly Avg	0.0623475	5	14.5		0.015982	5	1.145	0
	Monthly Total								
ı	Daily Max	0.10437		17		0.01807		1.6	<5
	Daily Min	0.02958		12		0.01088		0.49	<5
	Rolling 12 Month Avg								
Limit(s) in Effect	Monthly Avg								
	Monthly Total								
	Daily Max	12	0	69	0	0.98	0		
	Daily Min								
	Rolling 12 Month Avg				_				
QA/QC Information	LOD		<u></u>	1.7	.			0.49	3
	LOQ			5				1	10
	QC Exceedance	N	1 41 414	N		N		N	N
	Lab Certification		•	999580010)			999580010	999580010

	Sample Point	001	001	101	101	101
	Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	112	280	211	457	342
	Description	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)
	Units	ug/L	ng/L	MGD	mg/L	mg/L
	Sample Type	GRAB	GRAB	CONTINUOUS	24 HR COMP	GRAB
	Frequency	MONTHLY	MONTHLY	DAILY	DAILY	2/WEEK
Sample Results	Day 1			0.03625	10	1.5
	2			0.04767	6.5	3.0
	3			0.02444	6.5	
	4					
	5					
	6					
	7					
	8			0.04476	30	3.1
	9			0.03691	7.5	3.6
	10			0.05622	6.5	
	11		10	0.03949	5.0	
	12			0.01548	9.5	
	13					
	14					
	15			0.03328	7.5	2.4
	16			0.03354	6.5	<1.5
	17			0.04011	8.5	
	18			0.03941	6.0	
	19			0.01725	7.0	
	20					
	21					
	22	30		0.03726	6.5	2.6
	23			0.04017	4.5	2.4
	24			0.04193	<1.9	
	25			0.03151	<1.9	
	26			0.01720	6.0	
ł	27			0.00588	2.5	
	28					
	29			0.03704	4.0	
ļ	30			0.04028	4.0	
	31			0.02508	4.0	

	Sample Point	001	001	101	101	101
	Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	112	280	211	457	342
	Description	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)
	Units	ug/L	ng/L	MGD	mg/L	mg/L
Summary Values	Monthly Avg	30	10	0.033689091	6.75	2.325
	Monthly Total					
	Daily Max	30	10	0.05622	30	3.6
	Daily Min	30	10	0.00588	<1.9	<1.5
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg				31 0	26 0
	Monthly Total					
	Daily Max				60 0	52 0
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD	30	0.12		•	1.3
	LOQ	100	0.39			6
	QC Exceedance	N	N	N	N	N
	Lab Certification	The second secon	721026460		999580010	999580010

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	87	133	315	553	155
	Description	Cadmium, Total Recoverable	Chromium, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Cyanide, Total
	Units	ug/L	ug/L	ug/L.	ug/L	ug/L
	Sample Type	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	GRAB
	Frequency	2/WEEK	MONTHLY	2/WEEK	2/WEEK	MONTHLY
ample Results	Day 1	<0.49	7.3	2.8	64	<3.0
	2	<0.49	<2.2	<1.5	49	
	3					
	4					
	5					
	6					
	7					
	8	<0.49	28	<1.5	61	
	9	<0.49	3.9	<1.5	55	
	10					
	11					
	12					
	13					
	14			-		
	15	<0.49	13	4.7	69	
	16					
	17	<0.49	4.0	2.1	49	
	18					
	19					
	20					
	21					
	22	<0.49	2.9	5.8	66	
	23	<0.49	4.3	5.1	88	
	24					
	25					
	26	, , , , , , , , , , , , , , , , , , , ,				
	27	***************************************				
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishii Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ing	Metal Finishi Effluent	ng
	Parameter	87		133		315		553		155	
	Description	Cadmium, To Recoverable		Chromium, To Recoverable		Nickel, Tota Recoverabl		Zinc, Tota Recoverab		Cyanide, To	al
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0		7.925		2.5625		62.625		0	
	Monthly Total										
	Daily Max	<0.49		28		5.8		88		<3	
	Daily Min	<0.49		<2.2		<1.5		49		<3	
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg	260	0	1710	0	2380	0	1480	0	650	0
	Monthly Total										
	Daily Max	690	0	2770	0	3980	0	2610	0	1200	0
	Daily Min										
	Rolling 12 Month Avg										
QA/QC Information	LOD	0.49	•	2.2	•	1.5		3.6		3	•
	LOQ	1		5		5		10		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	99958001	0	99958001	0	99958001	0	9995800	10	99958001	0

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	147	264	430	374	373
	Description	Copper, Total Recoverable	Lead, Total Recoverable	Silver, Total Recoverable	pH (Minimum)	pH (Maximum)
	Units	ug/L	ug/L	ug/L	su	SU
	Sample Type	24 HR COMP	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS
	Frequency	2/WEEK	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	5.1	<1.3	<1.1	7.3	7.7
	2	11	<1.3	<1.1	7.5	8.0
	3				7.1	8.2
	4					
	5					
	6					
	7					
	8	9.2	<1.3	<1.1	7.2	7.9
	9	8.4	<1.3	<1.1	7.1	7.5
	10				6.9	8.2
	11				6.6	7.7
	12				6.8	8.0
	13					
	14					:
	15	11	<1.3	<1.1	7.6	8.5
	16				7.9	8.4
	17	6.4	<1.3	<1.1	8.0	8.9
Ī	18				8.2	8.6
Ì	19				7.2	8.2
	20					
	21					
	22	8.8	<1.3	<1.1	7.4	8.4
	23	6.6	<1.3	<1.1	7.5	8.4
	24				7.0	8.0
Ì	25		N N N N N N N N N N N N N N N N N N N		6.9	7.7
	26				6.8	8.2
	27				6.2	8.7
	28					
	29				6.6	9.0
	30				6.4	8.8
	31				6.2	7.0

	Sample Point	101		101		101		101		101	
	Description	Metal Finishii Effluent	ng	Metal Finishir Effluent	ng	Metal Finish Effluent	ing	Metal Finish Effluent	ing	Metal Finish Effluent	ning
	Parameter	147		264		430		374		373	
	Description	Copper, Tota Recoverable		Lead, Total Recoverable		Silver, Tota Recoverab		pH (Minimui	m)	pH (Maximu	ım)
	Units	ug/L		ug/L		ug/L		su		su	
Summary Values	Monthly Avg	8.3125		0		0		7.1090909	09	8.1818181	182
	Monthly Total	- WAA MARKA									
	Daily Max	11		<1.3		<1.1		8.2		9	
	Daily Min	5.1		<1.3		<1.1		6.2		7	· · · · · · · · · · · · · · · · · · ·
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg	2070	0	430	0	240	0				
	Monthly Total										
	Daily Max	3380	0	690	0	430	0			11	0
	Daily Min							4	0	***************************************	
	Rolling 12 Month Avg										
QA/QC Information	LOD	1.7	1	1.3		1.1					
	LOQ	5		2.5		2.5					
	QC Exceedance	N		N		N		N		N	
	Lab Certification	99958001	0	99958001	0	9995800	10				

<u></u>	Sample Point		101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	379	376	507	40	490
	Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Total Toxic Organics	Benzene	Tetrachloroethylene
	Units	minutes	Number	ug/L	ug/L	ug/L
	Sample Type	CALCULATED	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26				***	
	27		***************************************			
	28					
	29				- Alimore	
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finish Effluent	ing	Metal Finish Effluent		Metal Finishi Effluent	ng	Metal Finishing Effluent	3	Metal Finishin Effluent	ıg
	Parameter	379		376		507		40		490	
	Description	pH Total Excee Time Minut		pH Exceedar Greater Thai Minutes	nces n 60	Total Toxic Org	anics	Benzene		Tetrachloroethyl	lene
	Units	minutes		Number		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg										
	Monthly Total										
	Daily Max										
	Daily Min										
	Rolling 12 Month Avg				······						
Limit(s) in Effect	Monthly Avg	:									
	Monthly Total	446	0	0	0						
	Daily Max					2130					
	Daily Min										
	Rolling 12 Month Avg										
QA/QC Information	LOD										•
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	500	561	200	508	285
	Description	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
	Sample Type	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3			A A A A A A A A A A A A A A A A A A A		
	4					
	5					
	6 7	_4mm,				
	8					
	9					
	10					
	11					
	12	3141 PLOS - 2000000				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24	***************************************				
	25					
	26					
	27					
	28					
	29					
	30 31					
) J				1	

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent				
	Parameter	500	561	200	508	285
	Description	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
Summary Values	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg	444444				
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD	-				
	LOQ					
	QC Exceedance			1000		
	Lab Certification			**		

	Sample Point	101	106	106	106	107
	Description	Metal Finishing Effluent	Future remedial action ww	Future remedial action ww	Future remedial action ww	Mercury Field Blank Results
	Parameter	167	211	35	457	280
	Description	Di-n-butyl phthalate (dibutyl phthalate)	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable
	Units	ug/L	gpd	ug/L	mg/L	ng/L
	Sample Type	24 HR COMP	CONTINUOUS	24 HR COMP	24 HR COMP	GRAB
	Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6 7					
	8					
	9	· · · · · · · · · · · · · · · · · · ·				
	10					
	11					<0.12
	12					
	13					
	14					
	15					
	16					
	17					
:	18					
	19					
	20					
	21 22					
	23					
,	23					
	25	<u> </u>				
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101	106	106	106	107	
	Description	Metal Finishing Effluent	Future remedial action ww	Future remedial action ww	Future remedial action ww	Mercury Field Blank Results	
	Parameter	167	211	35	457	280	
	Description	Di-n-butyl phthalate (dibutyl phthalate)	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable	
	Units	ug/L	gpd	ug/L	mg/L	ng/L	
Summary Values	Monthly Avg					0	
	Monthly Total						
	Daily Max			7.44		<0.12	
	Daily Min	oods///			***************************************	<0.12	
	Rolling 12 Month Avg						
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max						
	Daily Min	444					
	Rolling 12 Month Avg			,			
QA/QC Information	LOD	•			,	0.12	
	LOQ					0.39	
	QC Exceedance	N	N	N	N	N	
	Lab Certification		**************************************		-	721026460	

	Sample Point	003	003	003	003	003
	Description	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg
	Parameter	211	457	35	374	373
	Description	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	pH (Minimum)	pH (Maximum)
	Units	MGD	mg/L	ug/L	su	su
	Sample Type	CONTINUOUS	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	WEEKLY	WEEKLY	DAILY	DAILY
Sample Results	Day 1	0.001975	<1.9	15	6.3	6.4
	2					
	3			4444		
	4			~	- Allan	
	5					
	6					
	7	0.005000			0.4	0.7
	8 9	0.005689			6.1	6.7
	10					
	11					
	12		***************************************			
	13					
	14					
	15	0.001244	2.5	6.7	6.4	8.7
	16					-
	17					
	18					
	19					
	20					
	21		W			
	22		***************************************			
	23		-			
	24]
	25	0.000750	2.2		~ ~	0.4
	26	0.000752	2.0	2.2	6.0	6.1
	27					
	28 29					
	30					
	31					
	JI	i		I	I	1

	Sample Point	003	003	003	003	003	
	Description	Future remedial action dischg 373 pH (Maximum)					
	Parameter	211	457	35	374		
	Description	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	pH (Minimum)		
	Units	MGD	mg/L	ug/L	su	su	
Summary Values	Monthly Avg	0.002415	1.5	7.966666667	6.2	6.975	
	Monthly Total						
	Daily Max	0.005689	2.5	15	6.4	8.7	
	Daily Min	0.000752	<1.9	2.2	6	6.1	
	Rolling 12 Month Avg						
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max			680 0		11 0	
	Daily Min				4 0		
	Rolling 12 Month Avg						
QA/QC Information	LOD		•	2.1			
	LOQ			5			
	QC Exceedance	N	N	N	N	N	
	Lab Certification		999580010	999580010			

	Sample Point	003	003
	Description		Future remedial action
	Description	dischg	dischg
	Parameter	379	376
	Description	pH Total Exceedance	
		Time Minutes	pH Exceedances Greater Than 60 Minutes
	Units	minutes	Number
	Sample Type	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	DAILY
Sample Results	Day 1		
	2		
	3		
	4		
	5		
	6		
	7		
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	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		

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	Sample Point	003	003		
	Description		ction	Future remedial a	ction
	Beschiption	dischg	00011	dischg	
	B	379		376	
	Parameter			pH Exceedance	
	Description	pH Total Exceeda Time Minutes		Greater Than 6	
		7 II 7 O TIMINGTO		Minutes	
	Units	minutes		Number	
Summary	Monthly				
Values	Avg				
	Monthly				
	Total				
	Daily Max				
	Daily Wax			· ·	
	Daile Miss	***************************************			
	Daily Min				
}	D - 11: 40				
	Rolling 12				
	Month Avg		,		
Limit(s) in	Monthly		İ		
Effect	Avg				
	Monthly	446	0		
	Total				
	Daily Max			0	0
	_				
	Daily Min				
	,				
	Rolling 12		†		
	Month Avg				
QA/QC	LOD		L		<u> </u>
Information	LOD				
	LOQ				
	LOQ				
				h 1	
	QC Exceedance	N		N	
	Lab				
	Certification				

Permit: 0001040 DOC: 429800

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)
Based on my inquiry of the person or persons directly responsible for managing compiliance with the permit limitation for TTO I certify that to the best of my knowledge and belief no dumping of concentrated toxic organics into the wastewaters has
2. occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the department.
General Remarks
Laboratory Quality Control Comments

Wastewater Discharge Monitoring Long Report

Facility Name: TYCO FIRE PRODUCTS LP

Contact Address: One Stanton St

Marinette, WI 54143

Facility Contact: Mike Elliott, EHS Manager

Phone Number: 715-735-7411

Reporting Period: 08/01/2019 - 08/31/2019

Form Due Date: 09/21/2019 Permit Number: 0001040

For DNR Use Only

Date Received:

DOC: 429801 FIN: 7245

FID: 438039470

Region: Northeast Region
Permit Drafter: Trevor J Moen
Reviewer: Nicole E Krueger

Office: Milwaukee

	Sample Point	001	703	001	001	001
	Description	PRIOR TO MENOMINEE RIVER	Intake Water Monitoring	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
	Parameter	211	280	487	374	373
	Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)	pH (Maximum)
	Units	MGD	ng/L	degF	su	su
	Sample Type	CONTINUOUS	GRAB	GRAB	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	0.103830		75	6.6	7.2
	2	0.055960		76	7.1	7.5
	3	0.019260		81	6.6	8.0
	4	0.037130		82	6.6	7.0
	5	0.166590		76	6.2	7.1
	6	0.122680		76	7.2	7.6
	7	0.162600		75	6.8	7.5
	8	0.062470		76	7.2	7.5
	9	0.004580		76	7.5	7.7
	10	0.000040		78	7.1	7.9
	11	0.038360		78	7.5	7.9
	12	0.122750		74	7.0	7.5
	13	0.103340			7.0	7.4
	14	0.010520	5.2		7.1	7.6
	15	0.084340			6.8	7.4
	16	0.107880		77	6.2	7.6
	17	0.0			7.1	7.8
	18	0.021020			7.5	7.8
	19	0.110950			6.8	7.8
	20	0.096700			7.0	7.6
	21	0.093820			7.0	7.6
	22	0.094050		74	6.8	7.4
	23	0.031850		76	6.8	7.6
	24	0.0		79	7.7	8.3
	25	0.037500		81	7.0	8.1
	26	0.206700		76	6.3	7.0
	27	0.066280		78	6.7	7.2
	28	0.015260		79	7.0	7.2
	29	0.003250		88	7.0	8.1
	30	0.000810		83	7.6	8.0
	31	0.0		81	8.0	8.2

Permit: 0001040

	Sample Point	001	703	001	001	001	
	Description	PRIOR TO	Intake Water	PRIOR TO	PRIOR TO	PRIOR TO	
		MENOMINEE RIVER	Monitoring	MENOMINEE RIVER	MENOMINEE RIVER	MENOMINEE RIVER	
	Parameter	211	280	487	374	373 pH (Maximum)	
	Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)		
	Units	MGD	ng/L	degF	su	su	
Summary Values	Monthly Avg	0.063887742	5.2	78.043478261	6.993548387	7.616129032	
	Monthly Total						
	Daily Max	0.2067	5.2	88	8	8.3	
	Daily Min	0	5.2	74	6.2	7	
	Rolling 12 Month Avg						
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max					11 0	
	Daily Min				4 0		
	Rolling 12 Month Avg						
QA/QC Information	LOD		0.12		•		
	LOQ		0.39				
	QC Exceedance	N	N	N	N	N	
	Lab Certification		721026460				

	Sample Point	001	001	001	001	001
	Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER
	Parameter	379	376	388	231	35
	Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Phosphorus, Total	Hardness, Total as CaCO3	Arsenic, Total Recoverable
	Units	minutes	Number	mg/L	mg/L	ug/L
	Sample Type	CONTINUOUS	CONTINUOUS	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	DAILY	DAILY	WEEKLY	MONTHLY	MONTHLY
Sample Results	Day 1			0.11	370	38
	2					
	3					
	4					
	5 6					
	7					
	8					
	9					
	10					
	11					
	12			0.14	310	26
	13					
	14					
	15			0.11	390	34
	16 17					
	18					
	19					
	20					
	21					
	22			0.11	430	30
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30 31					
	31					

	Sample Point	001		001		001		001	001	
	Description	PRIOR TO	\/ED	PRIOR TO		PRIOR TO		PRIOR TO	PRIOR TO	
		MENOMINEE R	IVER	MENOMINEE RIVER		MENOMINEE R	IVER	MENOMINEE RIVER	MENOMINEE F	RIVER
	Parameter	379		376		388		231	35	
	Description	pH Total Exceed Time Minute		pH Exceedand Greater Than	ces 60	Phosphorus, T	otal	Hardness, Total as CaCO3	Arsenic, Tot Recoverabl	
		Time winde		Minutes	00			Guodo	Recoverable	
	Units	minutes		Number		mg/L		mg/L	ug/L	
Summary	Monthly					0.1175		375	32	
Values	Avg									
	Monthly Total									
						0.44		400	20	
	Daily Max					0.14		430	38	
	Daily Min					0.11		310	26	
	Rolling 12					0.2				
	Month Avg									
Limit(s) in Effect	Monthly Avg									
	Monthly	446	0		+					+
	Total	440	"							
	Daily Max			0	0				680	0
	Daily Min									
	Rolling 12		+		+	1	0			
	Month Avg						"			
QA/QC	LOD		!		<u> </u>	0.024	_!	<u> </u>	3*Footnot	te
Information										
	LOQ					0.05			10*Footno	ote
	QC	N		N		N		N	N	
	Exceedance									
	Lab					99958001	0	999580010	99958001	10
	Certification									

Wastewater Discharge Monitoring Form
Facility Name: TYCO FIRE PRODUCTS LP
Reporting Period: 08/01/2019 to 08/31/2019

^{*}Footnote: QA/QC Information is not identical for each day, so the value shown is the maximum of all values for LOD/LOQ data or the first Lab found for Lab Cert data.

	Comple Delect	004	004	004	004	004
	Sample Point Description	001 PRIOR TO	001 PRIOR TO	001 PRIOR TO	001 PRIOR TO	001 PRIOR TO
	Description	MENOMINEE RIVER	MENOMINEE RIVER	MENOMINEE RIVER	MENOMINEE RIVER	MENOMINEE RIVER
	Parameter	35	147	147	87	152
	Description	Arsenic, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable	Cadmium, Total Recoverable	Cyanide, Amenable
	Units	lbs/day	ug/L	lbs/day	ug/L	ug/L
	Sample Type	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1	0.03306	13	0.01131	0.68	<5.0
	2					
	3					
	4					
	5 6					
	7					
	8					
	9					
	10					
	11					
	12	0.02652	23	0.02346	<0.49	
	13					
	14					
	15	0.0238	15	0.0105	0.65	
	16					
	17					
	18					
	19					
	20					
	21 22	0.0234	13	0.01014	0.54	
	23	0.0234	10	0.01014	0.04	
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001	001
	Description	PRIOR TO	<i>(</i> ED	PRIOR TO	, ED	PRIOR TO		PRIOR TO	PRIOR TO
		MENOMINEE RI	VER	MENOMINEE RI	VER	MENOMINEE R	IVER	MENOMINEE RIVER	MENOMINEE RIVER
	Parameter	35		147		147		87	152
	Description	Arsenic, Tota		Copper, Tota		Copper, Tota		Cadmium, Total	Cyanide, Amenable
		Recoverable		Recoverable		Recoverable	Э	Recoverable	
	Units	lbs/day		ug/L		lbs/day		ug/L	ug/L
Summary	Monthly	0.026695		16		0.013852	5	0.4675	0
Values	Avg								
	Monthly Total								
	Daily Max	0.03306		23		0.02346		0.68	<5
	Daily Min	0.0234		13		0.01014		<0.49	<5
	Rolling 12 Month Avg								
Limit(s) in Effect	Monthly Avg								
	Monthly Total								
	Daily Max	12	0	69	0	0.98	0		
	Daily Min								
	Rolling 12 Month Avg								
QA/QC Information	LOD		•	1.7	•		•	0.49	3
	LOQ			5				1	10
	QC Exceedance	N		N		N		N	N
	Lab Certification			999580010)			999580010	999580010

	Sample Point	001	001	101	101	101
	Description	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	112	280	211	457	342
	Description	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)
	Units	ug/L	ng/L	MGD	mg/L	mg/L
	Sample Type	GRAB	GRAB	CONTINUOUS	24 HR COMP	GRAB
	Frequency	MONTHLY	MONTHLY	DAILY	DAILY	2/WEEK
Sample Results	Day 1			0.039652	7.5	6.0
	2			0.025013	8.5	2.8
	3					
	4					
	5			0.044303	4.0	
	6			0.052450	3.5	
	7			0.036649	4.5	
-	8			0.026335	3.5	
	9			0.004281	7.0	1.8
	10					
	11					
	12			0.051723	2.0	2.9
	13			0.039519	3.0	
	14		8.5	0.035986	3.5	
	15			0.025162	5.0	1.7
	16			0.009295	9.5	<1.5
	17					
	18					
	19			0.032398	4.0	
	20			0.049302	2.5	
	21			0.021642	6.5	
	22	<30		0.031776	4.0	2.6
	23			0.013273	2.5	1.9
	24			0.010210	2.0	1.0
	25					
	26			0.027047	4.5	
	27			0.023757	3.5	
	28			0.015983	3.0	
	29			0.002584	6.5	+
	30			0.002384	5.5	
	31			0.001032	0.0	

	Sample Point	001	001	101	101	101
	Description	PRIOR TO	PRIOR TO	Metal Finishing	Metal Finishing	Metal Finishing
		MENOMINEE RIVER	MENOMINEE RIVER	Effluent	Effluent	Effluent
	Parameter	112	280	211	457	342
	Description	Chlorine, Total Residual	Mercury, Total Recoverable	Flow Rate	Suspended Solids, Total	Oil & Grease (Freon)
		Residual	Recoverable		Total	
	Units	ug/L	ng/L	MGD	mg/L	mg/L
Summary	Monthly	0	8.5	0.027689182	4.727272727	2.4625
Values	Avg					
	Monthly Total					
	Daily Max	<30	8.5	0.05245	9.5	6
	Daily Min	<30	8.5	0.001032	2	<1.5
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg				31 0	26 0
	Monthly Total					
	Daily Max				60 0	52 0
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD	30	0.12	•	•	1.4
	LOQ	100	0.39			5.8
	QC Exceedance	N	N	N	N	N
	Lab Certification		721026460		999580010	999580010

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	87	133	315	553	155
	Description	Cadmium, Total Recoverable	Chromium, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Cyanide, Total
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
	Sample Type	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	GRAB
	Frequency	2/WEEK	MONTHLY	2/WEEK	2/WEEK	MONTHLY
Sample Results	Day 1	<0.49	2.2	22	650	<3.0
	2	<0.49	<2.2	1.9	200	
	3					
	4					
	5					
	6					
	7					
	8	<0.49	<2.2	2.6	55	
	9					
	10					
	11					
	12	<0.49	<2.2	2.2	57	
	13					
	14					
	15	<0.49	<2.2	4.4	62	
	16	<0.49	2.2	5.0	88	
	17					
	18					
	19					
	20					
	21					
	22	<0.49	<2.2	2.6	59	
	23	<0.49	<2.2	2.7	46	
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishir Effluent	ng	Metal Finishii Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng
		Lindent		Lindent		Lindent		Lilident		Lindent	
	Parameter	87		133		315		553		155	
	Description	Cadmium, Tot	tal	Chromium, To	ata l	Nickel, Tota	ı	Zinc, Total		Cyanide, To	tal
	Description	Recoverable		Recoverable		Recoverable		Recoverabl		Cyanide, 10	lai
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0		0.55		5.425		152.125		0	
	Monthly Total										
	Daily Max	<0.49		2.2		22		650		<3	
	Daily Min	<0.49		<2.2		1.9		46		<3	
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg	260	0	1710	0	2380	0	1480	0	650	0
	Monthly Total										
	Daily Max	690	0	2770	0	3980	0	2610	0	1200	0
	Daily Min										
	Rolling 12 Month Avg										
QA/QC Information	LOD	0.49	•	2.2	•	1.5	•	3.6	•	3	
	LOQ	1		5		5		10		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	99958001	0	99958001	0	99958001	0	99958001	0	99958001	0

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	147	264	430	374	373
	Description	Copper, Total Recoverable	Lead, Total Recoverable	Silver, Total Recoverable	pH (Minimum)	pH (Maximum)
	Units	ug/L	ug/L	ug/L	su	su
	Sample Type	24 HR COMP	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS
	Frequency	2/WEEK	MONTHLY	MONTHLY	DAILY	DAILY
ample Results	Day 1	11	<1.3	<1.1	6.9	9.0
	2	7.6	<1.3	<1.1	6.6	8.4
	3					
	4					
	5				6.8	7.7
	6				6.9	7.9
	7				6.4	8.5
	8	5.0	<1.3	1.1	6.5	7.2
ŀ	9				6.4	8.4
	10					
	11					
	12	3.8	<1.3	<1.1	6.9	7.6
	13				6.2	7.2
	14				6.8	7.8
	15	5.4	<1.3	<1.1	6.7	7.4
	16	5.8	2.7	<1.1	7.0	8.6
	17					
	18					
	19				6.7	8.5
	20				7.2	8.6
	21				6.2	8.0
	22	4.1	<1.3	1.2	6.0	8.5
	23	4.0	1.4	<1.1	7.6	7.8
	24					
	25					
	26				7.0	8.2
	27				6.5	7.4
	28				6.4	7.5
	29				6.3	7.2
	30				6.1	6.7
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishin Effluent	ıg	Metal Finishir Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng
	Parameter	147		264		430		374		373	
	Description	Copper, Tota Recoverable		Lead, Total Recoverable		Silver, Tota Recoverabl		pH (Minimur	n)	pH (Maximui	n)
	Units	ug/L		ug/L		ug/L		su		su	
Summary Values	Monthly Avg	5.8375		0.5125		0.2875		6.6409090	91	7.9136363	64
	Monthly Total										
	Daily Max	11		2.7		1.2		7.6		9	
	Daily Min	3.8		<1.3		<1.1		6		6.7	
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg	2070	0	430	0	240	0				
	Monthly Total										
	Daily Max	3380	0	690	0	430	0			11	0
	Daily Min							4	0		
	Rolling 12 Month Avg										
QA/QC Information	LOD	1.7		1.3	•	1.1	•		•		
	LOQ	5		2.5		2.5					
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010)	99958001	0	99958001	0				

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	379	376	507	40	490
	Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Total Toxic Organics	Benzene	Tetrachloroethylene
	Units	minutes	Number	ug/L	ug/L	ug/L
	Sample Type	CALCULATED	CALCULATED	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8 9					
-	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23 24					
	25					
	26					
ŀ	27					
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishi Effluent	ng	Metal Finishir Effluent	ng	Metal Finishin Effluent	g	Metal Finishing Effluent	9	Metal Finishin Effluent	g
		Lindent		Lilident		Lindent		Lilidelit		Lindent	
	Parameter	379		376		507		40		490	
	Description	pH Total Exceed	lance	pH Exceedand	200	Total Toxic Orga	nice	Benzene		Tetrachloroethyle	one
	Description	Time Minute		Greater Than Minutes		Total Toxic Orga	11103	Benzene		rendemorecary	SIIC
	Units	minutes		Number		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg										
	Monthly Total										
	Daily Max										
	Daily Min										
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg										
	Monthly Total	446	0	0	0						
	Daily Max					2130					
	Daily Min										
	Rolling 12 Month Avg										
QA/QC Information	LOD		•				•				
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

			1		1	
	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	500	561	200	508	285
	Description	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
	Sample Type	24 HR COMP				
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
-	9 10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
		Ellidelit	Ellidelit	Ellidelit	Ellident	Eilideild
	Parameter	500	561	200	508	285
	Description	Toluene	1,1,1-Trichloro- ethane	Ethylbenzene	Trichloro- ethylene	Methylene chloride
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
Summary	Monthly					
Values	Avg					
	Monthly Total					
	Daily Max					
	Daily Wax					
	Daily Min					
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD	•		•		·
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	101	106	106	106	107
	Description	Metal Finishing Effluent	Future remedial action ww	Future remedial action ww	Future remedial action ww	Mercury Field Blank Results
	Parameter	167	211	35	457	280
	Description	Di-n-butyl phthalate (dibutyl phthalate)	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable
	Units	ug/L	gpd	ug/L	mg/L	ng/L
	Sample Type	24 HR COMP	CONTINUOUS	24 HR COMP	24 HR COMP	GRAB
	Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5 6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					<0.12
	15					
	16					
	17					
	18					
	19					
	20					
	21 22					
	23					
	23					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101	106	106	106	107
	Description	Metal Finishing Effluent	Future remedial action ww	Future remedial action ww	Future remedial action ww	Mercury Field Blank Results
		Lilident	vv vv	VV VV	WW	Results
	Damanatan	407	044	0.5	457	280
	Parameter Description	167 Di-n-butyl phthalate	211 Flow Rate	35 Arsenic, Total	457 Suspended Solids,	Mercury, Total
	Description	(dibutyl phthalate)	Flow Rate	Recoverable	Total	Recoverable
	Units	ug/L	gpd	ug/L	mg/L	ng/L
Summary Values	Monthly Avg					0
	Monthly Total					
	Daily Max					<0.12
	Daily Min					<0.12
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD				•	0.12
	LOQ					0.39
	QC Exceedance	N	N	N	N	N
	Lab Certification					721026460

	Sample Point	003	003	003	003	003
	Description	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg	Future remedial action dischg
	Parameter	211	457	35	374	373
	Description	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	pH (Minimum)	pH (Maximum)
	Units	MGD	mg/L	ug/L	su	su
	Sample Type	CONTINUOUS	24 HR COMP	24 HR COMP	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	WEEKLY	WEEKLY	DAILY	DAILY
Sample Results	Day 1					
	2					
	3					
	4	2 222 /27				
	5	0.000425	2.5	<2.1	6.0	6.0
	6	0.004470			2.2	0.0
	7	0.001172			6.0	6.0
	8	0.000898			6.0	6.0
	9 10					
	11					
	12	0.001865	<1.9	<2.1	6.0	6.0
	13					
	14	0.001867			6.5	7.0
	15	0.001743			7.8	8.1
	16					
	17					
	18					
	19	0.000732	<1.9	<2.1	6.8	6.9
	20	0.004699			6.7	6.8
	21	0.002188			6.7	7.2
	22	0.001878			6.7	6.8
	23	0.002285			6.9	7.1
	24					
	25	0.000004	44.0	10.0	0.7	0.0
	26	0.000881	<1.9	<2.6	6.7	6.8
	27 28					
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	Sample Point	003	003	003	003	003
	Description		Future remedial action			
		dischg	dischg	dischg	dischg	dischg
	Parameter	211	457	35	374	373
	Description	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	pH (Minimum)	pH (Maximum)
	Units	MGD	mg/L	ug/L	su	su
Summary Values	Monthly Avg	0.001719417	0.625	0	6.566666667	6.725
	Monthly Total					
	Daily Max	0.004699	2.5	<2.6	7.8	8.1
	Daily Min	0.000425	<1.9	<2.1	6	6
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max			680 0		11 0
	Daily Min				4 0	
	Rolling 12 Month Avg					
QA/QC Information	LOD			2.1		
	LOQ			5		
	QC Exceedance	N	N	N	N	N
	Lab Certification		999580010	999580010		

Sample Point 003 003 Description Future remedial action dischg Future remedial action dischg
Parameter 379 376 Description pH Total Exceedance Time Minutes Greater Than 60 Minutes Units minutes Number Sample Type CONTINUOUS CONTINUOUS Frequency DAILY DAILY ample Results Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Description PH Total Exceedance Time Minutes Greater Than 60 Minutes Units minutes Number Sample Type CONTINUOUS CONTINUOUS Frequency DAILY DAILY Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Description PH Total Exceedance Time Minutes Greater Than 60 Minutes Units minutes Number Sample Type CONTINUOUS CONTINUOUS Frequency DAILY DAILY Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Minutes Number
Sample Type CONTINUOUS CONTINUOUS Frequency DAILY DAILY Day 1
Frequency DAILY DAILY Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 3 4 5 6 7 8 9 10 11 12 13 14 15
3 4 5 6 7 8 9 10 11 12 13 14 15
4 5 6 7 8 9 10 11 12 12 13 14 15
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	Sample Point	003		003	
	Description				
		dischg		dischg	
	Parameter	379		376	
	Description	pH Total Exceeda Time Minutes		pH Exceedance	
		Time Minutes	•	Greater Than 6 Minutes	00
	Units	minutes		Number	
Summary	Monthly				
Values	Avg				
	Monthly Total				
	Daily Max				
	Daily Min				
	Rolling 12 Month Avg				
Limit(s) in Effect	Monthly Avg				
	Monthly Total	446	0		
	Daily Max			0	0
	Daily Min				
	Rolling 12 Month Avg				
QA/QC Information	LOD				
	LOQ				
	QC Exceedance	N		N	
	Lab Certification				

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)
1. Based on my inquiry of the person or persons directly responsible for managing compiliance with the permit limitation for TTO I certify that to the best of my knowledge and belief no dumping of concentrated toxic organics into the wastewaters has
2. occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the department.
General Remarks
For the temperature readings at OF001 there were missed readings because of the chart not working properly - 13th - 15th and 17th - 21st.
Laboratory Quality Control Comments
Submitted by Anne Fleury(afleury16) on 9/16/2019 12:38:36 PM

Wastewater Discharge Monitoring Form
Facility Name: TYCO FIRE PRODUCTS LP
Reporting Period: 08/01/2019 to 08/31/2019