# Jacobs

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January 15, 2021

Christopher Black 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 (October through December 2020) Administrative Order on Consent (February 26, 2009) Tyco Fire Products LP, Stanton Street Facility, Marinette, Wisconsin WID 006 125 215

Dear Mr. Black:

In accordance with Section VI, 21, b (Page 10) of the Administrative Order on Consent (AOC), dated February 26, 2009<sup>1</sup>, Tyco Fire Products LP (Tyco) has prepared this quarterly progress report for the U.S. Environmental Protection Agency (USEPA) 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 October 1 through December 31, 2020 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

Attachment 1 summarizes the operational data for the groundwater collection and treatment system (GWCTS) during the fourth quarter 2020, and Attachment 2 contains the monthly Discharge Monitoring Reports. Operations continue to include bypassing the first two reaction tanks and the lamella with direct connection of the equalization tank to Reaction Tank 3, then Reaction Tank 4, and then to the microfilter. The GWCTS operated continuously except for weekend and holiday downtime days and one longer maintenance shutdown between December 17 and December 28, 2020. Initially, the shutdown was a result of a network issue that was resolved on December 21, 2020; however, the system then was shut down for the holidays and started back up on December 28, 2020. Despite two less operating days, total volumes extracted and treated during the reporting period were higher when compared to the previous quarter. The overall volume of groundwater extracted was 851,062 gallons.

<sup>&</sup>lt;sup>1</sup> U.S. Environmental Protection Agency. 2009. Resource Conservation and Recovery Act Administrative Order on Consent, Ansul, Incorporated. EPA Docket No. RCRA-05-2009-0007542-S-02-001. February 26.

Christopher Black January 15, 2021 Page 2 of 5

As indicated in the previous quarterly report<sup>2</sup>, extraction well EW-1 in the Wetlands Area that was turned off temporarily in early September 2020 to allow the focus to be on the Main Plant extraction wells was turned back on October 19, 2020.

Pump down operations with the temporary system continued through fourth quarter 2020 in the former Salt Vault and former 8th Street Slip areas. Operations continued under management of Endpoint Solutions of Franklin, Wisconsin. From September 26, 2020 to January 1, 2021, as part of the pump down program, 287,650 gallons were extracted and disposed of offsite. Details of the pump down operations are reported to the Agencies in biweekly summary reports.

The fall barrier wall groundwater monitoring semiannual water level event was completed on October 12, 2020.

Pressure transducer-related activities were completed on October 13, 2020. These activities included downloading data from each transducer and collecting manual water levels at the time of transducer download. Monitoring well nests MW047 and MW100 were not accessible because of dense vegetation and river levels.

Tyco submitted two response letters on October 30, 2020 to respond to Agency comments that were received in an email with two letters from USEPA Project Manager Christopher Black on September 30, 2020 for both the 2019 Barrier Wall Groundwater Monitoring Annual Report<sup>3</sup> and Arsenic Migration Pathways Evaluation Report<sup>4</sup>.

### **Additional Activities**

The new ChemDesign building construction and related changes to RCRA remedy components continued in fourth quarter 2020. Work is complete, and ChemDesign took occupancy on November 1, 2020. There were no changes from the May 28, 2019 memorandum *Changes to RCRA Site Components Due to Proposed ChemDesign Building*.

A project status teleconference meeting was held on December 10, 2020 with USEPA, WDNR, Tyco, and Jacobs Engineering Group Inc. This was a follow-up meeting to complete the status update that was started on August 27, 2020.

The final Wisconsin Pollutant Discharge and Elimination System (WPDES) variance permit was received from WDNR on December 23, 2020 and became effective January 1, 2021. Construction of two horizontal wells for the conveyance system, part of the permanent pump down program, started on December 3, 2020. Construction of these wells was completed in early January 2021. The remainder of conveyance design and construction work will begin in 2021. The associated design efforts for the GWCTS improvements will be initiated in winter 2021.

# **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

<sup>&</sup>lt;sup>2</sup> Jacobs Engineering Group Inc. 2020. *Quarterly Progress Report (July through September 2020)*. October 15.

<sup>&</sup>lt;sup>3</sup> Jacobs Engineering Group Inc. 2020. 2019 Barrier Wall Groundwater Monitoring Annual Report. March 17.

<sup>&</sup>lt;sup>4</sup> Jacobs Engineering Group Inc. 2020. Arsenic Migration Pathways Evaluation Report. March 9.

Christopher Black January 15, 2021 Page 3 of 5

WI-0001040-07-0. Attachment 2 includes the GWCTS monthly WPDES Discharge Monitoring Reports for September through November 2020. Attachment 1 contains additional data on the GWCTS operations.

Weekly 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 have been reported to the Agencies in the biweekly summary reports.

Fall barrier wall groundwater elevation measurements were collected on October 12 and October 13, 2020. Continuous groundwater elevation data recorded by transducers are being compiled and evaluated. These data will be included in the annual report.

# **Problems Encountered**

## **Menomonee River Levels**

Menominee River water levels declined relative to the previous quarter but remained well above typical levels through fourth quarter 2020. During the reporting period, the river level remained above the top of the vertical barrier wall in the Wetlands Area of the site. River levels continued to periodically exceed the weir elevations in the Main Plant area until October 13, 2020; during the rest of the quarter, river levels remained below the weirs. Permanent weir gates designed to limit river water inflow in these areas were installed in early October 2020 by MJB Industries, Inc. at the two westernmost weirs and the easternmost weir. The second weir in the east does not require a gate, as the ground elevation is slightly higher in this area.

## Fall Barrier Wall Groundwater Monitoring and Transducer Download

During the October 2020 barrier wall groundwater elevation gauging event and transducer download, the following were encountered:

- MW048S and monitoring well nests MW047 and MW100 were not accessible because of the dense vegetation and river levels. (Proposed transducer location MW048S has been inaccessible in 2019 and 2020, and consistent with the June 2019 Addendum to 2015 Barrier Wall Groundwater Monitoring Plan Update<sup>5</sup>, this transducer location may not end up being installed.)
- MW040M and MW107D are flush-mount wells in areas where water was ponded because of rain and river levels. As such, water level gauging was not completed at these locations. MW107M became accessible the morning of October 13, 2020, however water was observed above the top of casing.
- Data from the MW107D non-vented transducer was pulled later in the day on October 13, 2020 when it became accessible during the transducer download event. While this area has intermittently had standing water present since its installation, the data appear to be accurately recording fluctuations in hydraulic head.

# **Schedule of Upcoming Activities**

The following summarizes activities to be conducted during the next reporting period:

• Submit the quarterly progress report

<sup>&</sup>lt;sup>5</sup> Jacobs Engineering Group Inc. 2019. Addendum to 2015 Barrier Wall Groundwater Monitoring Plan Update. June 24.

- Continue pump down program operations in the former Salt Vault and former 8th Street Slip areas
- Continue operating the GWCTS
- Finalize conveyance improvements design, complete construction on the horizontal wells, and initiate construction on the pump house at the former Salt Vault
- Initiate GWCTS improvements design
- Submit Revised Vapor Intrusion Assessment and Work Plan
- Submit 2020 Barrier Wall Groundwater Monitoring Annual Report

# List of Key Correspondence and Document Submittals

Project-related documents submitted to and received from the Agencies during the fourth quarter of 2020 are summarized in Tables 1 and 2, respectively.

#### Table 1. Documents Submitted

Quarterly Progress Report (October through December 2020), Tyco Fire Products LP Facility, Marinette, WI

Description of Submittal	Submitted To	Date Submitted
Biweekly Summary Report for Pump Down Program	USEPA	October 2, 2020
Copy of FX Building Phase I ESA	USEPA	October 14, 2020
Quarterly Progress Report (Third Quarter 2020)	USEPA	October 15, 2020
Biweekly Summary Report for Pump Down Program	USEPA	October 15, 2020
Email – Response to Draft WPDES Variance Permit Comments	WDNR	October 23, 2020
Biweekly Summary Report for Pump Down Program	USEPA	October 29, 2020
Email – Updated Mercury Pollutant Minimization Plan (part of response to Draft WPDES Variance Comments)	WDNR	October 29, 2020
Response to Agencies Review of 2019 Barrier Wall Groundwater Monitoring Annual Report dated March 17, 2020	USEPA	October 30, 2020
Response to USEPA and WDNR Review of <i>Arsenic Migration Pathways</i> <i>Evaluation Report</i> dated March 9, 2020	USEPA	October 30, 2020
Biweekly Summary Report for Pump Down Program	USEPA	November 13, 2020
Biweekly Summary Report for Pump Down Program	USEPA	November 25, 2020
Email – Draft Reserves for 2021	USEPA	December 5, 2020
Biweekly Summary Report for Pump Down Program	USEPA	December 8, 2020
Biweekly Summary Report for Pump Down Program	USEPA	December 25, 2020

#### Table 2. Correspondence from Agency

Quarterly Progress Report (October through December 2020), Tyco Fire Products LP Facility, Marinette, WI

Description of Correspondence	Submitted By	Date Submitted
USEPA Request for Documents RE: sale of 15 Acre Parcel to KKIL, LLC	USEPA	October 13, 2020
Email – Draft WPDES Variance Permit Comments for Tyco Review	WDNR	October 14, 2020
Issued Final WPDES Permit No. WI-0001040-08-0 (effective January 1, 2021 to December 31, 2025)	WDNR	December 23, 2020

If you have any questions or require additional information, please contact me at 262-644-6167 or Jeffrey Danko at 262-349-2528.

Respectfully Yours,

Jacobs Engineering Group Inc.

Hather J. Miegelbauer

Heather Ziegelbauer Project Manager

cc: Angela Carey, WDNR Ryan Suennen, Tyco Fire Products Jeff Danko, Johnson Controls Mariel Carter, Stephenson Public Library

#### Attachments

- 1 Groundwater Collection and Treatment System Operation Summary
- 2 Discharge Monitoring Reports for the Groundwater Collection and Treatment System

Document Control No.: D3394600.282

Attachment 1 Groundwater Collection and Treatment System Operation Summary

# Groundwater Collection and Treatment System Operations for Tyco Fire Products LP, Marinette, Wisconsin, October 1 through December 31, 2020

The following summarizes groundwater collection and treatment system (GWCTS) operations from October 1 through December 31, 2020 at the Tyco Fire Products LP facility on Stanton Street in Marinette, Wisconsin:

- The GWCTS operated for 22 days in October 2020, 21 days in November 2020, and 18 days in September 2020, for a total of 61 days.
- For the reporting period, the precipitation recorded from the weather station in Marinette, Wisconsin was 5.46 inches of rain and 6.4 inches of snow (http://www.ncdc.noaa.gov/cdo-web/datasets/GHCND/stations/GHCND:USC00475091/detail).
- An estimated 851,062 gallons of groundwater were extracted (not including volumes extracted as part of the pump down program) from the site during the reporting period. Table 1-1 lists the water volumes extracted from each area of the site for this quarter based on the recorded data.
- During the reporting period, an estimated 861,892 gallons of water were discharged to the Menominee River as effluent under the Wisconsin Pollutant Discharge and Elimination System permit.
- Approximately 335,200 gallons of reject water were produced this reporting period during system operations and subsequently disposed of offsite.

Extraction Well	Gallons Run, Fourth Quarter 2020 (October 1 through December 31, 2020)
EW-1	62,832
EW-2	0
EW-3	0
EW-4	16,535
EW-5	238,271
EW-6	253,480
EW-7	279,944
Total	851,062

#### Table 1-1. Extraction Well Data Summary (October through December 2020)

GWCTS Operations, Tyco Fire Products LP Facility, Marinette, WI

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: 715-735-7415
Reporting Period: 09/01/2020 - 09/30/2020
Form Due Date: 10/21/2020
Permit Number: 0001040

#### For DNR Use Only

Date Received:	
DOC:	452768
FIN:	7245
FID:	438039470
Region:	Northeast Region
Permit Drafter:	Trevor J Moen
Reviewer:	Laura A Gerold
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	Temperature	pH (Minimum)	pH (Maximum)
			Recoverable			
	Units	MGD	ng/L	degF	su	su
	Sample Type	CONTINUOUS	GRAB	GRAB	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	0.17413		81	6.6	7.1
	2	0.13664		80	6.8	7.1
	3	0.10013		77	6.8	7.2
	4	0.01732		82	7.2	8.2
	5	0.01404		84	7.6	8.0
	6	0.02424		84	7.8	8.1
	7	0.05638		85	6.9	8.0
	8	0.15140		75	6.6	7.0
	9	0.30122		71	6.6	7.0
	10	0.04683		77	6.8	7.2
	11	0.05617		82	7.1	7.8
	12	0.13467		76	7.4	7.8
	13	0.02404		82	7.6	8.2
	14	0.09988		82	7.0	7.8
	15	0.13499		79	7.2	8.0
	16	0.11531		77	7.1	7.4
	17	0.11461		76	7.0	7.3
	18	0.08846		75	7.2	7.3
	19	0.00145		80	7.2	7.8
	20	0.04507		80	6.9	7.6
	21	0.11631		75	6.6	6.9
	22	0.11288		76	6.8	7.0
	23	0.10892	<0.16	77	6.7	7.5
	24	0.03617		75	7.2	7.8
	25	0.01862			7.2	7.6
	26	0.04133			6.9	7.6
	27	0.02618			7.3	7.5
	28	0.07007		76	7.1	7.6
	29	0.11247		75	6.8	7.4
	30	0.11746		73	6.7	6.9
	31					
L						

	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
Summary Values	Monthly Avg	0.086579667	0	78.222222222	7.023333333	7.523333333
	Monthly Total					
	Daily Max	0.30122	<0.16	85	7.8	8.2
	Daily Min	0.00145	<0.16	71	6.6	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		0.16			
	LOQ		0.5			
	QC Exceedance	Ν	Ν	N	Ν	Ν
	Lab Certification		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	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			0.32	360	49
	2					
	3					
	4					
	5					
	6					
	7					
	8			0.48	370	39
	9					
	10					
	11					
	12					
	13					
	14					
	15			0.20	460	38
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23			0.24	320	33
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					
·		1			1	

	Sample Point	001		001		001		001	001	
	Description	PRIOR TO MENOMINEE RIVE	R	PRIOR TO MENOMINEE RIV	/ER	PRIOR TO MENOMINEE RI	VER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RI	VER
	Parameter	379		376		388		231	35	
	Description	pH Total Exceedance Time Minutes	æ	pH Exceedance Greater Than 6 Minutes	es 60	Phosphorus, To	otal	Hardness, Total as CaCO3	Arsenic, Tota Recoverable	
	Units	minutes		Number		mg/L		mg/L	ug/L	
Summary Values	Monthly Avg					0.31		377.5	39.75	
	Monthly Total									
	Daily Max					0.48		460	49	
	Daily Min					0.2		320	33	
	Rolling 12 Month Avg					0.5				
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		Ν		N		N	N	
	Lab Certification					999580010	)	999580010	999580010	C

	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	0.07105	28	0.0406	<0.49	<5.0
	2					
	3					
	4					
	5					
	6					
	7					
	8	0.04914	26	0.03276	<0.49	
	9					
	10					
	11					
	12					
	13					
	14					
	15	0.31692	31	0.03503	<0.49	
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23	0.03003	37	0.03367	<0.49	
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	٦
	Description	PRIOR TO MENOMINEE RIV	/ER	PRIOR TO MENOMINEE RIV	/ER	PRIOR TO MENOMINEE RI	VER	PRIOR TO MENOMINEE RIVE	ĒR	PRIOR TO MENOMINEE RIVER	:
	Parameter	35		147		147		87		152	-
	Description	Arsenic, Total Recoverable		Copper, Total Recoverable		Copper, Tota Recoverable		Cadmium, Total Recoverable		Cyanide, Amenable	_
	Units	lbs/day		ug/L		lbs/day		ug/L		ug/L	-
Summary Values	Monthly Avg	0.116785		30.5		0.035515		0		0	_
	Monthly Total										_
	Daily Max	0.31692		37		0.0406		<0.49		<5	
	Daily Min	0.03003		26		0.03276		<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			0.020000	<1.9	<1.3
	2			0.014952	2.5	<1.3
	3			0.010479	2.0	
	4					
	5					
	6					
	7					
	8	<20		0.033015	<1.9	<1.3
	9			0.022876	<1.9	<1.3
	10			0.009990	3.0	
	11			0.000811	5.5	
	12					
	13					
	14			0.025593	2.5	
	15			0.036654	<1.9	<1.3
	16			0.018702	<1.9	<1.3
	17			0.017640	2.0	
	18			0.005857	3.0	
	19					
	20					
	21			0.037597	2.0	
	22			0.024808	2.0	
	23		<0.16	0.015218	<1.9	<1.3
	24			0.003934	2.5	<1.3
	25			0.001176	<1.9	
	26					
	27					
	28			0.021557	<1.9	
	29			0.022200	<1.9	
	30			0.024327	<1.9	
	31					

	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	0	0	0.0183693	1.35	0
	Monthly Total					
	Daily Max	<20	<0.16	0.037597	5.5	<1.3
	Daily Min	<20	<0.16	0.000811	<1.9	<1.3
	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	0.16			1.3
	LOQ	100	0.5			5.1
	QC Exceedance	Ν	Ν	Ν	N	N
	Lab Certification		999580010		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	- ,	<0.49	<2.2	10	58	<3.0
	2	<0.49	<2.2	9.5	49	
	3					
	4					
	5					
	6					
	7					
	8	<0.49	<2.2	5.8	160	
	9	<0.49	<2.2	3.2	52	
	10					
	11					
	12					
	13					
	14					
	15	<0.49	<2.2	4.3	47	
	16	<0.49	<2.2	5.1	43	
	17					
	18					
	19					
	20					
	20					
	22	<0.49	<2.2	3.0	45	
	23	<0.49	<2.2	2.2	31	
	20	0.10	-2.2			
	25					
	26					
	20					
	27					
	20					
	30					
L	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishir Effluent	ng	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	87		133		315		553		155	
	Description	Cadmium, To	tal	Chromium, To	ntal	Nickel, Tota	1	Zinc, Total		Cyanide, To	ital
		Recoverable		Recoverable		Recoverable		Recoverable		eyanae, re	(u)
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0		0		5.3875		60.625		0	
	Monthly Total										
	Daily Max	<0.49		<2.2		10		160		<3	
	Daily Min	<0.49		<2.2		2.2		31		<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	Ν		Ν		Ν		Ν		Ν	
	Lab Certification	99958001	0	99958001	0	99958001	0	99958001	0	99958001	10

	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	. ,	3.1	2.6	<1.1	6.4	6.8
	2	3.4	1.9	<1.1	6.2	6.8
	3				6.3	7.2
	4					
	5					
	6					
	7					
	8	4.3	2.1	<1.1	7.0	7.3
	9	4.7	<1.3	<1.1	6.7	7.5
	10				6.3	7.2
	11				6.3	7.2
	12					
	13					
	14				7.0	7.4
	15	5.3	<1.3	<1.1	6.4	7.3
	16	7.6	1.3	<1.1	6.2	6.8
	17				6.2	7.5
	18				6.3	7.1
	19					
	20					
	21				6.8	7.3
	22	2.9	3.2	<1.1	6.5	6.8
	23	3.3	2.5	<1.1	6.2	6.8
	24				6.1	6.8
	25				6.0	6.8
	26					
	27					
	28				6.6	7.8
	29				6.6	7.8
	30				6.4	7.1
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishir Effluent	ng	Metal Finishir Effluent	ng	Metal Finishi Effluent	ng	Metal Finish Effluent	ing	Metal Finish Effluent	ing
	Parameter	147		264		430		374		373	
	Description	Copper, Tota Recoverable		Lead, Total Recoverable		Silver, Tota Recoverabl		pH (Minimu	m)	pH (Maximu	ım)
	Units	ug/L		ug/L		ug/L		su		su	
Summary Values	Monthly Avg	4.325		1.7		0		6.425		7.165	
	Monthly Total										
	Daily Max	7.6		3.2		<1.1		7		7.8	
	Daily Min	2.9		<1.3		<1.1		6		6.8	
	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	Ν		Ν		Ν		Ν		Ν	
	Lab Certification	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	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
Sample Results	Frequency	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
Sample Results	,					
	2					
	3 4					
	4 5					
	6					
	7					
	8					
	9					
	10					
	10					
	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 Finishir Effluent	ng	Metal Finishin Effluent	ng	Metal Finishir Effluent	ng	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	379		376		507		40	490
	Description	pH Total Exceed Time Minute	lance s	pH Exceedand Greater Than Minutes	ces 60	Total Toxic Orga	anics	Benzene	Tetrachloroethylene
	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				1				
	LOQ								
	QC Exceedance	N		N		N		Ν	N
	Lab Certification								

	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				
Sample Results	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		<u> </u>			
	20 21		++			
	21		+ +			
	22					
	23		+ +			
	25		+ +			
	26		+ +		1	
	27					
	28					
	29					
	30		1 1		1	
	31					

	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					
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					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					3.72
	24					
	25					
	26					
	20					
	28					
	20					
	30					
	30					
	JI					

	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					3.72
	Monthly Total					
	Daily Max					3.72
	Daily Min					3.72
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD	<b>I</b>				0.16
	LOQ					0.5
	QC Exceedance	Ν	N	N	Ν	Ν
	Lab Certification					999580010

	Sample Point	003	003	003	003	003
	Description	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	0.010365	<1.9	28	8.2	8.9
	2	0.011752			7.2	8.3
	3	0.012900			8.0	8.8
[	4	0.007798			8.3	8.5
[	5	0				
	6	0				
	7	0				
Ī	8	0.021647	<1.9	62	8.1	8.8
Ī	9	0.012285			6.5	7.2
Ī	10	0.022140			6.5	7.0
Ī	11	0.013575			6.7	6.9
l f	12	0.010090			6.6	7.0
l f	13	0.006307			6.0	6.2
l f	14	0.038971			8.7	9.0
l f	15	0				
	16	0				
	17	0				
l f	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0.014700			6.0	8.3
	25	0.008961			7.3	8.6
	26	0				
	27	0				
	28	0.011145			6.0	8.5
	29	0.015773	<1.9	40	6.2	7.7
	30	0.014387			6.7	8.4
	31		L			

	Sample Point	003	003	003	003	003
	Description	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
Summary Values	Monthly Avg	0.007759867	0	43.333333333	7.0625	8.00625
	Monthly Total					
	Daily Max	0.038971	<1.9	62	8.7	9
	Daily Min	0	<1.9	28	6	6.2
	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	dischg
	Parameter	379	376
	Description	pH Total Exceedance	pH Exceedances
	-	Time Minutes	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		
	20		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		

	Sample Point	003		003		
	Description	Future remedial a dischg	ction	Future remedial actic dischg		
	Parameter	379		376		
	Description	pH Total Exceeda	ince	pH Exceedanc	es	
		Time Minutes		Greater Than 6 Minutes		
	Units	minutes		Number		
Summary Values	Monthly 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	Ν		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 was shut down during the third week sampling due to the pH probes not working properly on the Effluent tank and we had to wait on the replacements to arrive and to be installed by Honeywell. So, there will be no TSS or Arsenic readings during this time. All is working good now.

Laboratory Quality Control Comments

Submitted by Anne Fleury(afleury16) on 10/19/2020 3:11:41 PM

## 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:	715-735-7415
Reporting Period:	10/01/2020 - 10/31/2020
Form Due Date:	11/21/2020
Permit Number:	0001040

## For DNR Use Only

Date Received:	
DOC:	456537
FIN:	7245
FID:	438039470
Region:	Northeast Region
Permit Drafter:	Trevor J Moen
Reviewer:	Laura A Gerold
Office:	Green Bay

Description         PPRIOR TO MENOMINEE RIVER         Intake Water Monitoring         PRIOR TO MENOMINEE RIVER           Description         Flow Rate         Meroury Total Recoverable         Temperature         pH (Minimum)         pH (Maximum)           Sample Result         Day 1         0.001140         GGRAB         GGRAB         CONTINUOUS         CONTINUOUS           Sample Result         Day 1         0.10916         T1         7.0         7.5           3         0.04737         73         6.8         7.1           4         0.04385         T1         6.8         7.1           5         0.11640         T1         6.8         7.2           7         0.10905         T2         6.9         7.2           8         0.10907         T5         7.0         7.6           9         0.05489		Sample Point	001	703	001	001	001
Parameter         211         280         487         374         373           Description         Ficw Rate         Microuy, Total Recoverable         Temperature         pH (Minimum)         pH (Maximum)           Sample Type         CONTINUOUS         GRAB         GRAB         CONTINUOUS         CONTINUOUS           Sample Results         Day 1         0.10916         72         6.6         6.9           2         0.06034         71         7.0         7.5         3         0.04737         73         6.8         7.1           3         0.04737         73         6.8         7.1         6         6.9         7.1           4         0.04658         70         6.8         7.1         6         7.1         6.8         7.1           5         0.11540         71         6.8         7.1         6         7.3         7.2         6.9         7.2           7         0.10995         72         6.9         7.2         7.0         7.6           9         0.05489         74         6.9         7.2         1.0         7.3         7.1         7.3           10         0.01182         75         7.1         7.3		Description					
Description         Flow Rate         Mercury, Total Recoverable         Temperature         pH (Maximum)         pH (Maximum)           Units         MGD         ng/L         degF         su         su           Sample Type         CONTINUOUS         GRAB         GRAB         CONTINUOUS         CONTINUOUS           Frequency         DAILY         MONTHLY         MONTHLY         DAILY         DAILY         DAILY           3         0.04737         73         6.8         7.4         4         0.04858         70         6.8         7.1           5         0.11540         71         6.8         7.1         6         0.13005         72         6.8         7.2           6         0.13005         72         6.8         7.2         7         0.10995         7.2         6.9         7.2           7         0.10995         72         6.8         7.2         7         0.10995         7.1         7.3           10         0.05182         75         7.1         7.3         1         7.3           11         0.0524         74         7.0         7.5         7.4         6.7         7.2           12         0.16721			MENOMINEE RIVER	Monitoring	MENOMINEE RIVER	MENOMINEE RIVER	MENOMINEE RIVER
Description         Flow Rate         Mercury, Total Recoverable         Temperature         pH (Maximum)         pH (Maximum)           Units         MGD         ng/L         degF         su         su           Sample Type         CONTINUOUS         GRAB         GRAB         CONTINUOUS         CONTINUOUS           Frequency         DAILY         MONTHLY         MONTHLY         DAILY         DAILY         DAILY           3         0.04737         73         6.8         7.4         4         0.04858         70         6.8         7.1           5         0.11540         71         6.8         7.1         6         0.13005         72         6.8         7.2           6         0.13005         72         6.8         7.2         7         0.10995         7.2         6.9         7.2           7         0.10995         72         6.8         7.2         7         0.10995         7.1         7.3           10         0.05182         75         7.1         7.3         1         7.3           11         0.0524         74         7.0         7.5         7.4         6.7         7.2           12         0.16721							
Image: Network of the second		Parameter	211		487	374	373
Sample Type         CONTINUOUS         GRAB         GRAB         CONTINUOUS         CONTINUOUS           Sample Results         Day 1         0.10916         72         6.6         6.9           2         0.06034         71         7.0         7.5           3         0.04737         73         6.8         7.4           4         0.04858         70         6.8         7.1           5         0.11540         71         6.8         7.2           7         0.10995         72         6.9         7.2           7         0.10995         72         6.9         7.2           8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           14         0.13277         70         6.8         7.2           16         0.06017         68		Description	Flow Rate		Temperature	pH (Minimum)	pH (Maximum)
Sample Type         CONTINUOUS         GRAB         GRAB         CONTINUOUS         CONTINUOUS           Sample Results         Day 1         0.10916         72         6.6         6.9           2         0.06034         71         7.0         7.5           3         0.04737         73         6.8         7.4           4         0.04858         70         6.8         7.1           5         0.11540         71         6.8         7.2           7         0.10995         72         6.9         7.2           7         0.10995         72         6.9         7.2           8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           14         0.13277         70         6.8         7.2           16         0.06017         68							
Frequency         DALLY         MONTHLY         MONTHLY         DAILY         DAILY           Bay 1         0.10916         72         6.6         6.9           2         0.06034         71         7.0         7.5           3         0.04737         73         6.8         7.4           4         0.04858         70         6.8         7.1           6         0.13005         72         6.8         7.2           7         0.10995         72         6.9         7.2           7         0.10995         72         6.9         7.2           8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           11         0.05324         74         7.0         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2					-		
Sample Results         Day 1         0.10916         72         6.6         6.9           2         0.06034         71         7.0         7.5           3         0.04737         73         6.8         7.4           4         0.04858         70         6.8         7.1           5         0.11540         71         6.8         7.1           6         0.13005         72         6.8         7.2           7         0.10995         72         6.9         7.2           8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           11         0.05324         74         7.0         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           17         0.08847         72         6.9         7.8		Sample Type	CONTINUOUS	GRAB	GRAB	CONTINUOUS	CONTINUOUS
Sample Results         Day 1         0.10916         72         6.6         6.9           2         0.06034         71         7.0         7.5           3         0.04737         73         6.8         7.4           4         0.04858         70         6.8         7.1           5         0.11540         71         6.8         7.1           6         0.13005         72         6.8         7.2           7         0.10995         72         6.9         7.2           8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           11         0.05324         74         7.0         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           17         0.08847         72         6.9         7.8		Froquency					
2         0.06034         71         7.0         7.5           3         0.04737         73         6.8         7.4           4         0.04858         70         6.8         7.1           5         0.11540         71         6.8         7.1           6         0.3005         72         6.8         7.2           7         0.10995         72         6.9         7.2           7         0.10995         72         6.9         7.2           7         0.10995         72         6.9         7.2           8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           11         0.05324         74         7.0         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.1377         70         6.8         7.2           16 <td< th=""><th>Sample Results</th><th></th><th></th><th>MONTHET</th><th></th><th></th><th></th></td<>	Sample Results			MONTHET			
3         0.04737         73         6.8         7.4           4         0.04858         70         6.8         7.1           5         0.11540         71         6.8         7.1           6         0.13005         72         6.8         7.2           7         0.10995         72         6.9         7.2           8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           11         0.05224         74         7.0         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19							
4         0.04858         70         6.8         7.1           5         0.11540         71         6.8         7.1           6         0.13005         72         6.8         7.2           7         0.10995         72         6.9         7.2           8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           11         0.05324         74         7.0         7.5           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21							
5         0.11540         71         6.8         7.1           6         0.13005         72         6.8         7.2           7         0.10995         72         6.9         7.2           8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           11         0.05324         74         7.0         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21							
6         0.13005         72         6.8         7.2           7         0.10995         72         6.9         7.2           8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           11         0.05324         74         7.0         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           17         0.8847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.93413         70         6.2         6.8           22         0.39413         70         6.2         6.8           23							
7         0.10995         72         6.9         7.2           8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           11         0.05324         74         7.0         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.0         6.8           22         0.39413         70         6.2         6.8							
8         0.10907         75         7.0         7.6           9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           11         0.05324         74         70         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           16         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16							
9         0.05489         74         6.9         7.2           10         0.01182         75         7.1         7.3           11         0.05324         74         7.0         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.0         6.8           22         0.39413         70         6.2         6.8           23         0.09371         63         6.3         7.5           24         0.4904         63         6.4         6.6 <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr<>							
10         0.01182         75         7.1         7.3           11         0.05324         74         7.0         7.3           12         0.15716         70         6.5         7.0           13         0.1257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.2         6.8           22         0.39413         70         6.2         6.8           23         0.09371         63         6.3         7.5           24         0.04904         63         6.4         6.6           25         0.06550         67         6.6         6.8 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>							
11         0.05324         74         7.0         7.3           12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.2         6.8           22         0.39413         70         6.2         6.8         6.8           23         0.09371         63         6.3         7.5         6.4         6.6           25         0.06550         67         6.6         6.8         6.8         6.8         6.8           26         0.13075         65         6.3         6.8         7.4							
12         0.15716         70         6.5         7.0           13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.0         6.8           22         0.39413         70         6.2         6.8           23         0.09371         63         6.3         7.5           24         0.04904         63         6.4         6.6           25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         7.0         7.5      <							
13         0.12257         73         7.0         7.5           14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.0         6.8           22         0.39413         70         6.2         6.8           23         0.09371         63         6.3         7.5           24         0.04904         63         6.4         6.6           25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         7.0         7.5           29         0.12806         65         7.1         7.5      <							
14         0.13258         71         6.7         7.1           15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.0         6.8           22         0.39413         70         6.2         6.8           23         0.09371         63         6.3         7.5           24         0.04904         63         6.4         6.6           25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         7.0         7.5           29         0.12806         65         7.1         7.5           30         0.08865         68         7.4         8.0 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
15         0.13777         70         6.8         7.2           16         0.06017         68         7.0         7.2           17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16							
16         0.06017         68         7.0         7.2           17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.0         6.8           22         0.39413         70         6.2         6.8           23         0.09371         63         6.3         7.5           24         0.04904         63         6.4         6.6           25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         7.0         7.5           28         0.1387         67         7.0         7.5           29         0.12806         65         7.1         7.5           30         0.08865         68         7.4         8.0							
17         0.08847         72         6.9         7.8           18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.0         6.8           22         0.39413         70         6.2         6.8           23         0.09371         63         6.3         7.5           24         0.04904         63         6.4         6.6           25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         6.6         7.4           28         0.13887         67         7.0         7.5           29         0.12806         65         7.1         7.5           30         0.08865         68         7.4         8.0							
18         0.10017         68         6.6         6.9           19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.0         6.8           22         0.39413         70         6.2         6.8           23         0.09371         63         6.3         7.5           24         0.04904         63         6.4         6.6           25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         7.0         7.5           29         0.12806         65         7.1         7.5           30         0.08865         68         7.4         8.0							
19         0.15721         74         6.7         7.8           20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.0         6.8           22         0.39413         70         6.2         6.8           23         0.09371         63         6.3         7.5           24         0.04904         63         6.4         6.6           25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         6.6         7.4           28         0.13887         67         7.0         7.5           30         0.08865         68         7.4         8.0							
20         0.19447         75         6.7         8.0           21         0.15266         <0.16         70         6.0         6.8           22         0.39413         70         6.2         6.8           23         0.09371         63         6.3         7.5           24         0.04904         63         6.4         6.6           25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         6.6         7.4           28         0.13887         67         7.0         7.5           30         0.08865         68         7.4         8.0							
21         0.15266         <0.16							
22         0.39413         70         6.2         6.8           23         0.09371         63         6.3         7.5           24         0.04904         63         6.4         6.6           25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         6.6         7.4           28         0.13887         67         7.0         7.5           29         0.12806         65         7.1         7.5           30         0.08865         68         7.4         8.0				<0.16			
23         0.09371         63         6.3         7.5           24         0.04904         63         6.4         6.6           25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         6.6         7.4           28         0.13887         67         7.0         7.5           29         0.12806         65         7.1         7.5           30         0.08865         68         7.4         8.0		22	0.39413		70	6.2	
25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         6.6         7.4           28         0.13887         67         7.0         7.5           29         0.12806         65         7.1         7.5           30         0.08865         68         7.4         8.0							
25         0.06550         67         6.6         6.8           26         0.13075         65         6.3         6.8           27         0.13610         67         6.6         7.4           28         0.13887         67         7.0         7.5           29         0.12806         65         7.1         7.5           30         0.08865         68         7.4         8.0							
26         0.13075         65         6.3         6.8           27         0.13610         67         6.6         7.4           28         0.13887         67         7.0         7.5           29         0.12806         65         7.1         7.5           30         0.08865         68         7.4         8.0		25	0.06550		67	6.6	
27         0.13610         67         6.6         7.4           28         0.13887         67         7.0         7.5           29         0.12806         65         7.1         7.5           30         0.08865         68         7.4         8.0		26	0.13075		65	6.3	
29         0.12806         65         7.1         7.5           30         0.08865         68         7.4         8.0		27	0.13610		67	6.6	7.4
<b>30</b> 0.08865 68 7.4 8.0		28	0.13887		67	7.0	7.5
		29	0.12806		65	7.1	7.5
<b>31</b> 0.06416 68 7.5 8.1		30	0.08865		68	7.4	8.0
		31	0.06416		68	7.5	8.1

Sample Point 0		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	
Summary Values	Monthly Avg	0.111034516	0	70.096774194	6.774193548	7.293548387	
	Monthly Total						
	Daily Max	0.39413	<0.16	75	7.5	8.1	
	Daily Min	0.01182	<0.16	63	6	6.6	
	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		0.16				
	LOQ		0.5				
	QC Exceedance	Ν	Ν	N	Ν	Ν	
	Lab Certification		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	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					
	4					
	5			0.20	390	38
	6					
	7					
	8			0.21	240	31
	9					
	10					
	11					
	12					
	13					
	14					
	15			0.14	340	22
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26			0.30	260	44
	27					
	28					
	29					
	30					
	31					

	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	PRIOR TO MENOMINEE RI	VER
	Parameter	379		376	376		388		35							
	Description	pH Total Exceedand Time Minutes	се	Greater Than 60 Minutes		Phosphorus, Total		231 Hardness, Total as CaCO3	Arsenic, Total Recoverable							
	Units	minutes		Number		mg/L		mg/L	ug/L							
Summary Values	Monthly Avg					0.2125		307.5	33.75							
	Monthly Total															
	Daily Max					0.3		390	44							
	Daily Min					0.14		240	22							
	Rolling 12 Month Avg					0.5										
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	i				0.024	•		2.1							
	LOQ					0.05			5							
	QC Exceedance	Ν		Ν		N		Ν	N							
	Lab Certification					999580010	)	999580010	999580010	0						

	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					
	4					
	5	0.03648	32	0.03072	<0.49	<5.0
	6					
	7					
	8	0.02821	42	0.03822	0.69	
	9					
	10					
	11					
[	12					
[	13					
[	14					
[	15	0.0253	31	0.03565	<0.49	
	16					
	17					
[	18					
[	19					
	20					
[	21					
	22					
	23					
	24					
	25					
[	26	0.04796	26	0.02834	<0.49	
	27					
[	28					
[	29					
[	30					
	31					

	Sample Point	001		001		001		001	001
	Description	PRIOR TO MENOMINEE RIVE	ER	PRIOR TO MENOMINEE RI\	/ER	PRIOR TO MENOMINEE R	VER	PRIOR TO MENOMINEE RIVEF	PRIOR TO MENOMINEE RIVER
	Parameter	35		147		147		87	152
	Description	Arsenic, Total Recoverable		Copper, Total Recoverable		Copper, Tota Recoverable		Cadmium, Total Recoverable	Cyanide, Amenable
	Units	lbs/day		ug/L		lbs/day		ug/L	ug/L
Summary Values	Monthly Avg	0.0344875		32.75		0.033232	5	0.1725	0
	Monthly Total								
	Daily Max	0.04796		42		0.03822		0.69	<5
	Daily Min	0.0253		26		0.02834		<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	Ν		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			0.019830	2.5	<1.3
	2			0.010865	2.5	<1.3
	3					
	4					
	5			0.025345	3.0	
	6			0.033859	2.5	
	7			0.019268	3.0	
	8			0.013700	2.5	<1.3
	9	10		0.006647	2.5	<1.3
	10 11					
	12			0.028549	<1.9	
	13			0.019251	2.0	
	14			0.026082	2.0	
	15			0.035154	<1.9	<1.3
	16			0.006754	3.0	<1.3
	17					
	18					
	19			0.047337	<1.9	
	20			0.036126	<1.9	
	21		0.94	0.028398	3.0	
	22			0.020124	<1.9	<1.3
	23			0.006653	3.0	1.9
	24					
	25					
	26			0.021215	<1.9	
	27			0.018715	<1.9	
	28			0.022879	<1.9	
	29			0.015340	<1.9	
	30			0.008083	9.0	
	31					

	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	10	0.94	0.021371545	1.840909091	0.2375
	Monthly Total					
	Daily Max	10	0.94	0.047337	9	1.9
	Daily Min	10	0.94	0.006647	<1.9	<1.3
	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	0.16			1.3
	LOQ	100	0.5			5.1
	QC Exceedance	Ν	Ν	Ν	N	Ν
	Lab Certification		999580010		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		<0.49	<2.2	6.1	55	
	2	<0.49	<2.2	5.3	51	
	3					
	4					
	5					<3.0
	6					
	7					
	8	<0.49	<2.2	5.9	50	
	9	<0.49	<2.2	3.4	44	
	10					
	11					
	12					
	13					
	14					
	15	<0.49	<2.2	3.2	27	
	16	<0.49	<2.2	3.1	21	
	17					
	18					
	19					
	20					
	21					
	22	<0.49	<2.2	2.8	62	
	23	<0.49	<2.2	3.8	110	
	24	-		-	-	
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishir Effluent	ng	Metal Finishin Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng	Metal Finish Effluent	ing
	Parameter	87		133		315		553		155	
	Description	Cadmium, To Recoverable		Chromium, To Recoverable		Nickel, Tota Recoverable		Zinc, Total Recoverabl		Cyanide, To	tal
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0		0		4.2		52.5		0	
	Monthly Total										
	Daily Max	<0.49		<2.2		6.1		110		<3	
	Daily Min	<0.49		<2.2		2.8		21		<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	Ν		N		N		Ν		Ν	
	Lab Certification	99958001	0	99958001	0	99958001	0	99958001	0	99958001	10

	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 2	4.5 6.1	2.6 2.3	<1.1 <1.1	6.6 6.3	7.2
	3	0.1	2.0	\$1.1	0.5	7.1
-	4					
	5				6.5	7.2
	6				7.0	7.4
	7				6.3	7.2
	8	4.4	<1.3	<1.1	6.3	6.9
	9	3.0	1.7	<1.1	6.7	7.0
	10					
	11					
	12				6.3	7.0
	13				6.2	7.4
	14 15	3.6	<1.3	<1.1	6.2 6.1	7.0
	16	3.5	<1.3	<1.1	6.3	7.0
	17	5.5	\$1.5	\$1.1	0.5	7.0
	18					
	19				6.7	7.2
	20				6.5	7.4
	21				6.4	7.1
	22	4.0	1.4	<1.1	6.5	6.9
	23	6.4	<1.3	<1.1	6.3	7.0
	24					
	25					
	26				6.6	8.7
	27				6.5	8.6
	28				6.5	7.6
	29				6.4	7.8
	30				6.4	6.8
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng	Metal Finish Effluent	ing	Metal Finish Effluent	iing
	Parameter	147		264		430		374		373	
	Description	Copper, Tota Recoverable		Lead, Total Recoverable		Silver, Tota Recoverabl		pH (Minimu	m)	pH (Maximu	ım)
	Units	ug/L		ug/L		ug/L		su		su	
Summary Values	Monthly Avg	4.4375		1		0		6.4363636	36	7.2954545	545
	Monthly Total										
	Daily Max	6.4		2.6		<1.1		7		8.7	
	Daily Min	3		<1.3		<1.1		6.1		6.8	
	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	Ν		Ν		Ν		Ν		Ν	
	Lab Certification	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	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
Sample Results	Frequency Day 1	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
Cample Results	2					
	3					
	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 Finishir Effluent	ng	Metal Finishin Effluent	ng	Metal Finishir Effluent	ng	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	379	379		376			40	490
	Description	pH Total Exceed Time Minute	lance s	pH Exceedand Greater Than Minutes	ces 60	507 Total Toxic Orga	anics	Benzene	Tetrachloroethylene
	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				1				
	LOQ								
	QC Exceedance	N		N		N		Ν	N
	Lab Certification								

	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				
Sample Results	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		<u> </u>			
	20 21		++			
	21		+ +			
	22					
	23		+ +			
	25		+ +			
	26		+ +		1	
	27					
	28					
	29					
	30		1 1		1	
	31					

	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						
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max						
	Daily Min						
	Rolling 12 Month Avg						
QA/QC Information	LOD	<b>I</b>					
	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					
	15					
	16					
	17					
	18					
[	19					
	20					
	21					<0.16
	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 280	
	Parameter	167	211	35	457		
	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					<0.16	
	Daily Min					<0.16	
	Rolling 12 Month Avg						
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max						
	Daily Min						
	Rolling 12 Month Avg						
QA/QC Information	LOD					0.16	
	LOQ					0.5	
	QC Exceedance	Ν	N	N	Ν	Ν	
	Lab Certification					999580010	

	Sample Point	003	003	003	003	003
	Description	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	0.016773			6.7	8.2
	2	0.015210			7.4	8.1
	3	0				
	4	0				
	5	0.014294	<1.9	45	6.0	7.0
	6	0.020622			6.5	8.4
	7	0.017070			7.6	8.5
	8	0.017145			7.7	8.4
	9	0.005343			8.1	8.4
	10	0				
	11	0				
	12	0.014087	<1.9	39	6.0	8.5
	13	0.017280			6.3	8.8
	14	0.017764			6.2	6.6
	15	0.013835			6.4	6.8
	16	0.012624			6.6	7.9
	17	0				
	18	0				
	19	0.002165	<1.9	36	6.7	7.2
	20	0.015682			6.5	7.0
	21	0.015182			6.2	6.4
	22	0.012896			6.1	6.3
	23	0.010911			6.2	6.6
	24	0				
	25	0				
	26	0.008562			6.0	7.4
Ì	27	0.015682	<1.9	36	6.2	8.9
	28	0.016527			6.0	8.5
	29	0.011805			6.7	9.0
	30	0.012690			6.7	7.7
	31	0				

	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	
Summary Values	Monthly Avg	0.009811258	0	39	6.581818182	7.754545455	
	Monthly Total						
	Daily Max	0.020622	<1.9	45	8.1	9	
	Daily Min	0	<1.9	36	6	6.3	
	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	Ν	N	N	Ν	Ν	
	Lab Certification		999580010	999580010			

	Sample Point	003	003
	Description		Future remedial action
		dischg	dischg
	Parameter	379	376
	Description	pH Total Exceedance	pH Exceedances
	-	Time Minutes	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 dischg	ction	Future remedial action dischg		
	Parameter	379		376		
	Description	pH Total Exceeda	ance	pH Exceedance	es	
		Time Minutes		Greater Than 60 Minutes		
	Units	minutes		Number		
Summary Values	Monthly 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		Ν		
	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

Laboratory Quality Control Comments

Submitted by Anne Fleury(afleury16) on 11/16/2020 1:57:59 PM

## 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: 715-735-7415
Reporting Period: 11/01/2020 - 11/30/2020
Form Due Date: 12/21/2020
Permit Number: 0001040

## For DNR Use Only

Date Received:	
DOC:	456538
FIN:	7245
FID:	438039470
Region:	Northeast Region
Permit Drafter:	Trevor J Moen
Reviewer:	Laura A Gerold
Office:	Green Bay

Parameter         211         280         487         374         373           Description         Flow Rate         Mercuy, 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         DAILY           3         0.13103         667         6.8         7.6         8.1           2         0.12948         65         7.2         7.8           3         0.13103         667         6.8         7.6           4         0.13979         688         6.7         7.0           5         0.12608         65         6.8         7.1           6         0.09490         69         7.0         7.3           7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.6         6.8           11 <th></th> <th>Sample Point</th> <th>001</th> <th>703</th> <th>001</th> <th>001</th> <th>001</th>		Sample Point	001	703	001	001	001
Description         Flow Rate         Mercury, Total Recoverable         Temperature         pH (Minimum)         pH (Maximum)           Sample Type         CONTINUOUS         GRAB         GRAB         CONTINUOUS         CONTINUOUS           Sample Results         Day 1         0.06319         70         7.6         8.1           2         0.12948         65         7.2         7.8           3         0.13103         67         6.8         7.6           4         0.13979         68         6.7         7.0           5         0.12608         65         6.8         7.1           6         0.09490         69         7.0         7.3           7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.2         6.8           11         0.13922         68         6.4         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8     <		Description					PRIOR TO MENOMINEE RIVER
Description         Flow Rate         Mercury, Total Recoverable         Temperature         pH (Minimum)         pH (Maximum)           Sample Type         CONTINUOUS         GRAB         GRAB         CONTINUOUS         CONTINUOUS           Sample Results         Day 1         0.06319         70         7.6         8.1           2         0.12948         65         7.2         7.8           3         0.13103         67         6.8         7.6           4         0.13979         68         6.7         7.0           5         0.12608         65         6.8         7.1           6         0.09490         69         7.0         7.3           7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.2         6.8           11         0.13922         68         6.4         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8     <		Paramotor	211	280	497	274	272
Sample Type         CONTINUOUS         GRAB         GRAB         CONTINUOUS         CONTINUOUS           Frequency         DAILY         MONTHLY         MONTHLY         DAILY         DAILY           Sample Results         Day 1         0.06319         70         7.6         8.1           2         0.12948         65         7.2         7.8           3         0.13103         67         6.8         7.6           4         0.13979         68         6.7         7.0           5         0.12608         65         6.8         7.1           6         0.09490         69         7.0         7.3           7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         <				Mercury, Total			pH (Maximum)
Sample Type         CONTINUOUS         GRAB         GRAB         CONTINUOUS         CONTINUOUS           Frequency         DAILY         MONTHLY         MONTHLY         DAILY         DAILY           Sample Results         Day 1         0.06319         70         7.6         8.1           2         0.12948         65         7.2         7.8           3         0.13103         67         6.8         7.6           4         0.13979         68         6.7         7.0           5         0.12608         65         6.8         7.1           6         0.09490         69         7.0         7.3           7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         <		Units	MGD	ng/l	deaF	SU	SU
Day 1         0.06319         70         7.6         8.1           2         0.12948         65         7.2         7.8           3         0.13103         67         6.8         7.6           4         0.13979         68         6.7         7.0           5         0.12608         655         6.8         7.1           6         0.09490         69         7.0         7.3           7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.2         6.8           11         0.12585         64         6.7         7.0           12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18				-	-		CONTINUOUS
2         0.12948         65         7.2         7.8           3         0.13103         67         6.8         7.6           4         0.13979         68         6.7         7.0           5         0.12608         65         6.8         7.1           6         0.09490         69         7.0         7.3           7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.2         6.8           11         0.12585         64         6.7         7.0           12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.3           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.3           20		Frequency	DAILY	MONTHLY	MONTHLY	DAILY	DAILY
3         0.13103         67         6.8         7.6           4         0.13979         68         6.7         7.0           5         0.12608         65         6.8         7.1           6         0.09490         69         7.0         7.3           7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.2         6.8           11         0.15285         64         6.7         7.0           12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.3           20	Sample Results	Day 1	0.06319		70	7.6	8.1
4         0.13979         68         6.7         7.0           5         0.12608         65         6.8         7.1           6         0.09490         69         7.0         7.3           7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.2         6.8           11         0.12585         64         6.7         7.0           12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.3           20         0.04563         62         7.3         7.5           21		2	0.12948		65	7.2	7.8
5         0.12608         65         6.8         7.1           6         0.09490         69         7.0         7.3           7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.2         6.8           11         0.12585         64         6.7         7.0           12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13222         68         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.2         7.8           21         0.05482         65         7.2         7.8           22		3	0.13103		67	6.8	7.6
6         0.09490         69         7.0         7.3           7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.2         6.8           11         0.12585         64         6.7         7.0           12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05892         64         7.2         7.6           23		4	0.13979		68	6.7	7.0
7         0.04673         72         7.2         7.4           8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.2         6.8           11         0.12585         64         6.7         7.0           12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24		5	0.12608		65	6.8	
8         0.07248         70         7.0         7.3           9         0.16283         64         6.7         7.0           10         0.29533         64         6.2         6.8           11         0.12585         64         6.7         7.0           12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.3         7.6           23         0.05892         64         7.2         7.6           24		6	0.09490		69	7.0	7.3
9         0.16283         64         6.7         7.0           10         0.29533         64         6.2         6.8           11         0.12585         64         6.7         7.0           12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.3           25		7	0.04673		72	7.2	7.4
10         0.29533         64         6.2         6.8           11         0.12585         64         6.7         7.0           12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.3           25         0.03138         62         6.9         7.3           26		8	0.07248		70	7.0	7.3
11         0.12585         64         6.7         7.0           12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8 <th></th> <th>9</th> <th>0.16283</th> <th></th> <th>64</th> <th>6.7</th> <th>7.0</th>		9	0.16283		64	6.7	7.0
12         0.14515         64         6.6         6.8           13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.03553         63         7.3         7.5           27         0.02494         65         7.4         7.8		10	0.29533		64	6.2	6.8
13         0.09867         62         6.5         7.1           14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8		11	0.12585		64	6.7	7.0
14         0.13922         68         6.4         6.8           15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8		12	0.14515		64	6.6	6.8
15         0.20372         63         6.4         7.5           16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.0353         63         7.3         7.5           27         0.02494         65         7.4         7.8		13	0.09867		62	6.5	7.1
16         0.12288         64         6.8         7.1           17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.3           25         0.03138         62         6.9         7.3           26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8		14	0.13922		68	6.4	6.8
17         0.13106         63         7.0         7.2           18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.0353         63         7.3         7.5           27         0.02494         65         7.4         7.8		15	0.20372		63	6.4	7.5
18         0.13953         62         6.9         7.2           19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8		16	0.12288		64	6.8	7.1
19         0.10715         63         6.9         7.3           20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8		17	0.13106		63	7.0	7.2
20         0.04563         62         7.3         7.5           21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.0353         63         7.3         7.5           27         0.02494         65         7.4         7.8		18	0.13953		62	6.9	7.2
21         0.05482         65         7.2         7.8           22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8		19	0.10715		63	6.9	7.3
22         0.06300         64         7.4         7.6           23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8		20	0.04563		62	7.3	7.5
23         0.05892         64         7.2         7.6           24         0.09208         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8		21	0.05482		65	7.2	7.8
24         0.09208         64         6.9         7.4           25         0.03138         62         6.9         7.3           26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8		22	0.06300		64	7.4	7.6
25         0.03138         62         6.9         7.3           26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8		23	0.05892		64	7.2	7.6
26         0.03353         63         7.3         7.5           27         0.02494         65         7.4         7.8		24	0.09208		64	6.9	7.4
<b>27</b> 0.02494 65 7.4 7.8		25	0.03138		62	6.9	7.3
		26	0.03353		63	7.3	7.5
		27	0.02494		65	7.4	7.8
		28	0.02957		67	7.6	8.0
<b>29</b> 0.05845 65 7.4 7.8		29	0.05845		65	7.4	7.8
<b>30</b> 0.12455 <0.16 59 7.1 7.4		30	0.12455	<0.16	59	7.1	7.4
31		31					

	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 373	
	Parameter	211	280	487	374		
	Description	Flow Rate	Mercury, Total Recoverable	Temperature	pH (Minimum)	pH (Maximum)	
	Units	MGD	ng/L	degF	su	su	
Summary Values	Monthly Avg	0.103064667	0	64.9	6.97	7.37	
	Monthly Total						
	Daily Max	0.29533	<0.16	72	7.6	8.1	
	Daily Min	0.02494	<0.16	59	6.2	6.8	
	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		0.16				
	LOQ		0.5				
	QC Exceedance	Ν	Ν	N	Ν	Ν	
	Lab Certification		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	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			0.81	310	33
	3					
	4					
	5					
	6					
	7					
	8					
	9			0.58	230	53
	10					
	11					
	12					
	13					
	14					
	15					
	16			0.34	430	48
	17					
	18					
	19					
	20					
	21					
	22					
	23			0.29	380	95
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001	001	
	Description	PRIOR TO MENOMINEE RIVE	R	PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER		PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE R	
	Parameter	379		376		388		231	35	
	Description	pH Total Exceedance Time Minutes	ce	pH Exceedance	pH Exceedances Greater Than 60		Phosphorus, Total		Arsenic, Tota Recoverable	
	Units	minutes		Number		mg/L		mg/L	ug/L	
Summary Values	Monthly Avg					0.505		337.5	57.25	
	Monthly Total									
	Daily Max					0.81		430	95	
	Daily Min					0.29		230	33	
	Rolling 12 Month Avg					0.5				
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		Ν		N		Ν	N	
	Lab Certification					999580010	)	999580010	99958001	0

	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	0.03564	29	0.03132	<0.49	<5.0
	3					
	4					
	5					
	6					
	7					
	8					
	9	0.07208	33	0.04488	<0.49	
	10					
	11					
	12					
	13					
	14					
	15					
	16	0.04896	26	0.02652	<0.49	
	17					
	18					
	19					
	20					
	21					
	22					
	23	0.04655	37	0.01813	<0.49	
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001	001	
	Description	PRIOR TO MENOMINEE RIVE	ER	PRIOR TO MENOMINEE RI\	/ER	PRIOR TO MENOMINEE RI	VER	PRIOR TO MENOMINEE RIVER	PRIOR TO MENOMINEE RIVER	
	Parameter	35		147		147		87	152	
	Description	Arsenic, Total Recoverable		Copper, Total Recoverable		Copper, Tota Recoverable		Cadmium, Total Recoverable	Cyanide, Amenable	
	Units	lbs/day		ug/L		lbs/day		ug/L	ug/L	
Summary Values	Monthly Avg	0.0508075		31.25		0.0302125	5	0	0	
	Monthly Total									
	Daily Max	0.07208		37		0.04488		<0.49	<5	
	Daily Min	0.03564		26		0.01813		<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	Ν		N		N		Ν	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					
	2			0.019370	2.0	<1.3
	3			0.020718	2.0	
	4			0.022367	3.0	<1.3
	5			0.016677	2.0	
	6			0.008493	2.5	
	7					
	8					
	9			0.026343	<1.9	<1.3
	10			0.027537	<1.9	<1.3
	11			0.021540	<1.9	
	12			0.023269	12.0	
	13			0.009498	4.0	
	14					
	15					
	16			0.024068	2.5	<1.3
	17			0.022107	2.0	<1.3
	18			0.028257	<1.9	
	19			0.015271	2.5	
	20					
	21					
	22					
	23			0.011670	<1.9	<1.3
	24			0.010760	<1.9	<1.3
	25	15			1	
	26				1	
	27					
	28					
	29				1	
	30		0.5	0.032482	2.0	
	31					

	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	15	0.5	0.020025118	2.147058824	0
	Monthly Total					
	Daily Max	15	0.5	0.032482	12	<1.3
	Daily Min	15	0.5	0.008493	<1.9	<1.3
	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	0.16			1.3
	LOQ	100	0.5			5
	QC Exceedance	Ν	N	Ν	N	N
	Lab Certification		999580010		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	- ,	.0.40				
	2	<0.49	<2.2	34	67	<3.0
	3 4	<0.49	<2.2	19	54	
	5					
	6					
	7					
	8					
	9	<0.49	<2.2	8.4	280	
	10	<0.49	<2.2	4.8	74	
	11					
	12					
	13					
	14					
	15					
	16	<0.49	<2.2	12	370	
	17	<0.49	<2.2	9.3	120	
	18					
	19					
	20					
	21					
	22	-0.40		<u>с</u> г	100	
	23	<0.49	<2.2	6.5 1.7	100	
	24	<0.49	<2.2	1.7	68	
	25 26					<u> </u>
	26					
	27					
	28					
	30					
	30					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ng	Metal Finish Effluent	ing	Metal Finish Effluent	ing
	Parameter	87		133		315		553		155	
	Description	Cadmium, To Recoverable		Chromium, To Recoverable		Nickel, Tota Recoverabl		Zinc, Tota Recoverab		Cyanide, To	otal
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0		0		11.9625		141.625		0	
	Monthly Total										
	Daily Max	<0.49		<2.2		34		370		<3	
	Daily Min	<0.49		<2.2		1.7		54		<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	Ν		N		Ν		Ν		Ν	
	Lab Certification	99958001	0	99958001	0	99958001	0	99958001	0	9995800 <sup>-</sup>	10

	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	· <b>J</b>					
	2	5.3	2.9	<1.1	6.6	7.3
	3	5.1	2.4	<1.1	6.2	7.4
	4				6.4	6.8
	5				6.6	7.6
	6				6.4	7.5
	7					
	8					
	9	2.3	<1.3	<1.1	6.4	7.2
	10	2.3	<1.3	<1.1	6.3	6.9
	11				6.2	6.9
	12				6.5	7.6
	13				6.4	7.0
	14					
	15					
	16	3.5	1.6	<1.1	6.4	7.2
	17	3.1	2.2	<1.1	6.3	7.2
	18				6.0	7.0
	19				6.3	7.2
	20					
	21					
	22					
	23	2.4	<1.3	<1.1	6.4	6.9
	24	3.1	<1.3	<1.1	6.1	7.0
	25					
	26					
	27					
	28					
	29					
	30				6.6	7.4
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishir Effluent	ng	Metal Finishir Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ing	Metal Finish Effluent	ing
	Parameter	147		264		430		374		373	
	Description	Copper, Tota Recoverable		Lead, Total Recoverable		Silver, Tota Recoverabl		pH (Minimu	m)	pH (Maximu	ım)
	Units	ug/L		ug/L		ug/L		su		su	
Summary Values	Monthly Avg	3.3875		1.1375		0		6.3588235	29	7.1823529	941
	Monthly Total										
	Daily Max	5.3		2.9		<1.1		6.6		7.6	
	Daily Min	2.3		<1.3		<1.1		6		6.8	
	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	Ν		Ν		Ν		Ν		N	
	Lab Certification	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	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
Sample Results	Frequency Day 1	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
	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 Finishir Effluent			ng	Metal Finishir Effluent	ng	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	379		376		507		40	490
	Description	pH Total Exceed Time Minute	lance s	pH Exceedand Greater Than Minutes	ces 60	Total Toxic Orga	anics	Benzene	Tetrachloroethylene
	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				1				
	LOQ								
	QC Exceedance	N		N		N		Ν	N
	Lab Certification								

	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				
Sample Results	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		<u> </u>			
	20 21		++			
	21		+ +			
	22					
	23		+ +			
	25		+ +			
	26		+ +		1	
	27					
	28					
	29					
	30		1 1		1	
	31					

	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						
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max						
	Daily Min						
	Rolling 12 Month Avg						
QA/QC Information	LOD	·					
	LOQ						
	QC Exceedance	Ν	N	Ν	N	Ν	
	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
Commis Desuits	Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	MONTHLY
Sample Results	,					
	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					<0.16
	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					<0.16
	Daily Min					<0.16
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD					0.16
	LOQ					0.5
	QC Exceedance	Ν	N	N	Ν	Ν
	Lab Certification					999580010

	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				
	2	0.011436	<1.9	49	6.6	8.9
	3	0.012012			6.9	8.9
	4	0.007975			6.4	9.0
	5	0.009886			6.5	6.6
	6	0				
	7	0				
	8	0				
	9	0.008987	<1.9	27	6.0	6.2
	10	0.014128			6.0	9.0
	11	0.014942			6.1	9.0
	12	0.013308			6.7	8.8
	13	0.012843			6.8	8.7
	14	0.007859			6.6	9.0
	15	0.008686			6.5	7.7
	16	0.010394			6.2	6.9
	17	0.005406			6.0	6.3
	18	0.021862	<1.9	62	6.3	8.8
	19	0.013312			6.4	8.3
	20	0.006297			6.7	8.9
	21	0.008512			6.2	8.0
	22	0.006453			7.1	8.4
	23	0.013397	<1.9	63	6.9	8.7
-	24	0.014341			7.2	8.5
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0.016059			6.6	7.3
	31					

	Sample Point	003	003	003	003	003	
	Description	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	
Summary Values	Monthly Avg	0.0079365	0	50.25	6.50952381	8.185714286	
	Monthly Total						
	Daily Max	0.021862	<1.9	63	7.2	9	
	Daily Min	0	<1.9	27	6	6.2	
	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	dischg
	Parameter	379	376
	Description	pH Total Exceedance	pH Exceedances
	-	Time Minutes	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		
	20		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		

	Sample Point	003		003	
	Description			Future remedial action dischg	
	Parameter	270		376	
	Description	379 pH Total Exceedance		pH Exceedance	es
		Time Minutes		Greater Than 60 Minutes	
	Units	minutes		Number	
Summary Values	Monthly 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	N			
	QC Exceedance			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

Laboratory Quality Control Comments

Submitted by Anne Fleury(afleury16) on 12/14/2020 3:35:53 PM