

**City of Sturgis WWTP  
2101 Treatment Plant Rd.  
Sturgis, Michigan 49091-8730**

(269) 659-7250 FAX (269) 659-2500

**NPDES Permit Number: MI 0020451**

---

**Industrial Pretreatment Program**

**ANNUAL REPORT**

**For Reporting Period**

**01/01/12 to 12/31/12**

---

**Contact Person:**

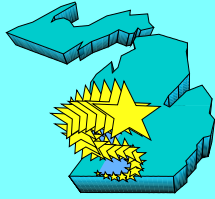
**Thomas Sikorski  
WWTP Supervisor**

**For**

**District Supervisor**

**Attention:  
Kameron Jordan**

**MDEQ-WB  
Kalamazoo District Office  
7953 Adobe Road  
Kalamazoo, Michigan 49009**



# City of Sturgis WWTP

2101 Treatment Plant Rd., Sturgis, MI 49091-8730

Tel: 269-659-7250 Fax: 269-659-2500

March 22, 2013

Kameron Jordan  
District Supervisor  
MDEQ/WB  
7953 Adobe Road  
Kalamazoo, Michigan 49009

**RE: NPDES Permit # MI0020451: 2012 IPP ANNUAL REPORT**

Dear Mr. Jordan:

Enclosed herewith is the Annual Industrial Pretreatment Program Status Report for the City of Sturgis that is due April 1<sup>st</sup>, 2013.

If you have any questions please feel free to contact me.

Sincerely,

*Thomas Sikorski*  
Thomas Sikorski  
WWTP Supervisor

Cc: Michael L. Hughes  
City Manager  
City of Sturgis

Jeannette Fenner  
Director WWTP/IT  
City of Sturgis

Enclosure

CERTIFIED MAIL # 7012 1010 0001 3977 2197

# Michigan Industrial Pretreatment Program (MIPP) Annual Report Form

<b>Section I : General Information</b>			
1. Name of Facility: City of Sturgis			
2. NPDES Number: MI 0020451			
3. Contact Person: Tom Sikorski			Phone: 269-659-7250
4. Reporting Period: 01/01/2012 to 12/31/2012			E-mail: tsikorski@sturgismi.gov
5. Attach a summary of any sampling results for the influent, effluent, and sludge monitoring conducted during the reporting period.			
6. Total Number of Industrial Users: 40      SIUs: 1      CIUs: 4			
Have there been any additions, deletions, or any other modifications to the previous year's Significant Industrial User (SIU) list or industrial user inventory? If <i>NO</i> , check here. <input checked="" type="checkbox"/> If yes provide the following information: (Attach additional sheets if necessary.)			
Facility Name	Change Add/Delete	Explanation	CIU or SIU
	<input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>
For all new or changed SIUs, provide: <ul style="list-style-type: none"> <li><input type="radio"/> Process description,</li> <li><input type="radio"/> Flow information; and</li> <li><input type="radio"/> Reason it is classified as an SIU.</li> </ul>			

I certify under penalty of law that all the information supplied in this report, including attachments, is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature Tom Sikorski

Title WWTP Supervisor

Date 3/22/2013

Michigan Industrial Pretreatment Program Annual Report Form (Continued)

Fill in one column for each SIU:

	SIU #1			SIU #2		
a. SIU Name	Abbott Nutrition			Midwest Tool & Cutlery II		
b. Categorical Classification (if applicable)	None			Metal Finishing		
c. Date(s) Inspected	11/28/2012			10/02/2012		
d. Permit Issued Date	10/01/2011			02/01/2012		
e. Permit Expiration	07/31/2014			01/31/2016		
f. Did this permittee have an expired permit at anytime during the reporting period?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
g. If yes, list dates.						
h. How often has the POTW sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	4			2		
i. How often has the SIU sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	0			0		
j. Was this SIU in SNC (in non-compliance with limits, sampling, and reporting requirements) at any time during the reporting period? If 'No' go to l.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
k. If yes (in SNC), were notices *published in the newspaper? If 'Yes' attach copy of actual notice	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
l. List: o violations, o corresponding enforcement actions, and o whether or not the SIU has returned to compliance. (Attach extra sheets as necessary)	Violations	Enforcement Actions	In Compliance?	Violations	Enforcement Actions	In Compliance?
				TSS, Permit Max Day Exceeded	Letter of Violation Issued	Yes
			yes	pH Permit Maximum Exceeded	Phone Call	Yes
m. Additional Information						

\* Publication of CIUs required, non-CIUs optional

Michigan Industrial Pretreatment Program Annual Report Form (Continued)

Fill in one column for each SIU:

	SIU #3			SIU #4		
a. SIU Name	Penguin, LLC			Summit Polymers Inc.-SYNTECH Plant		
b. Categorical Classification (if applicable)	Metal finishing			Plastic Molding		
c. Date(s) Inspected	9/26/2012			04/11/2012		
d. Permit Issued Date	10/01/2011			04/01/2010		
e. Permit Expiration	09/30/2015			05/30/2015		
f. Did this permittee have an expired permit at anytime during the reporting period?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
g. If yes, list dates.						
h. How often has the <u>POTW</u> sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	4			2		
i. How often has the <u>SIU</u> sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	0			0		
j. Was this SIU in SNC (in non-compliance with limits, sampling, and reporting requirements) at any time during the reporting period? If 'No' go to l.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
k. If yes (in SNC), were notices *published in the newspaper? <b>If 'Yes'</b> and attach copy of actual notice	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No		
l. List: <ul style="list-style-type: none"> <li>o violations,</li> <li>o corresponding enforcement actions, and</li> <li>o whether or not the SIU has returned to compliance.</li> </ul> (Attach extra sheets as necessary)	Violations	Enforcement Actions	In Compliance?	Violations	Enforcement Actions	In Compliance?
			yes			yes
m. Additional Information						

\* Publication of CIUs required, non-CIUs optional

Michigan Industrial Pretreatment Program Annual Report Form (Continued)

Fill in one column for each SIU:

	SIU #5			SIU #		
a. SIU Name	Sturgis Molded Product					
b. Categorical Classification (if applicable)	Plastic Molding					
c. Date(s) Inspected	04/11/2012					
d. Permit Issued Date	12/12/2008					
e. Permit Expiration	12/12/2013					
f. Did this permittee have an expired permit at anytime during the reporting period?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No		
g. If yes, list dates.						
h. How often has the <u>POTW</u> sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	2					
i. How often has the <u>SIU</u> sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	0					
j. Was this SIU in SNC (in non-compliance with limits, sampling, and reporting requirements) at any time during the reporting period? If 'No' go to l.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No		
k. If yes (in SNC), were notices *published in the newspaper? <b>If 'Yes'</b> and attach copy of actual notice	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No		
l. List: <ul style="list-style-type: none"> <li>o violations,</li> <li>o corresponding enforcement actions, and</li> <li>o whether or not the SIU has returned to compliance.</li> </ul> (Attach extra sheets as necessary)	Violations	Enforcement Actions	In Compliance?	Violations	Enforcement Actions	In Compliance?
			yes			
m. Additional Information						

\* Publication of CIUs required, non-CIUs optional



2012

### Annual Summary of Influent and Effluent Sampling

The following table contains the annual averages of all sampling results ( including the units used) taken by the POTW during the reporting period. The number of samples used to calculate the annual average is in ( ). The level of detection is in [ ]. For the purpose of calculating the average , those sampling results below the level of detection are treated as zero (0).

Parameter	Reading	Loading Lbs	Max	Number of samples used for average	Average of detection limit		FLOW, MIL GAL
<b>INFLUENT</b>							
Influent BOD	260 mg/L	3,841		( 366 )	[ 2 ]	AVG day	1.77
Influent SS	314 mg/L	4,638		( 366 )	[ 2 ]	Max day	2.32
Influent Phosphorus	7.16 mg/L	106		( 54 )	[ 0.1 ]	TOTAL	647.45
Influent NH3	22.8 mg/L	336		( 366 )	[ 0.1 ]		
Influent pH	7.8 S.U.			( 366 )	[ ]		
Arsenic	0.00 mg/L			( 4 )	[ 0.01 ]		
Cadmium	0.00 mg/L			( 4 )	[ 0.005 ]		
Chromium	0.01 mg/L			( 4 )	[ 0.01 ]		
Copper	0.18 mg/L			( 4 )	[ 0.1 ]		
Lead	0.01 mg/L			( 4 )	[ 0.001 ]		
Mercury	0.00 mg/L			( 4 )	[ 0.0005 ]		
Nickel	0.01 mg/L			( 4 )	[ 0.02 ]		
Selenium	0.00 mg/L			( 4 )	[ 0.005 ]		
Silver	0.00 mg/L			( 4 )	[ 0.006 ]		
Zinc	0.19 mg/L			( 4 )	[ 0.1 ]		



Parameter	Reading	Max	Number of samples used for average	Average of detection limit	
<b>EFFLUENT</b>					FLOW, MIL GAL
Effluent BOD	2 mg/L	10	( 366 )	[ 2 ]	
Effluent SS	5 mg/L	12	( 366 )	[ 2 ]	AVG day 1.59
Effluent Phosphorus	0.55 mg/L	1.40	( 54 )	[ 0.1 ]	Max day 2.27
Effluent NH3	0.31 mg/L	7.4	( 366 )	[ 0.1 ]	Days 366
Effluent pH	8.1 S.U.	8.5	( 366 )	[ ]	
Cadmium	0.65 ug/L		( 4 )	[ 0.2 ]	
Copper	9.25 ug/L		( 4 )	[ 1 ]	
Selenium	0.77 ug/L		( 0 )	[ 2 ]	
Lead	1.25 ug/L		( 4 )	[ 1 ]	
Zinc	18.75 ug/L		( 4 )	[ 5 ]	
Mercury	0.89 ng/L		( 5 )	[ 0.5 ]	
Methylene Chloride	ug/L		( 0 )	[ 5 ]	
Arsenic	1.38 ug/L		( 4 )	[ 1 ]	
Chromium	1.75 ug/L		( 4 )	[ 5 ]	
Nickel	10.00 ug/L		( 4 )	[ 5 ]	
Silver	1.94 ug/L		( 4 )	[ 0.5 ]	
Cyanide, Available	ug/L		( 0 )	[ 0.5 ]	
Dissolved Oxygen, minimum		5.00			
FC BOD Max Day	2		366		366
FC SS Max day	12		366		
FC P Max day	1.40		54		
FC N Max day	7		366		



## Sturgis WWTP

### Summary of Biosolids Analysis for Calendar year 2012

	%Total Solids	% Volatile Solids	S.U.	Arsenic mg/kg	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg
DATE	TS	TVS	pH	AS	CD	CR	CU	PB	HG	NI
1/11/12	10.9	43	7.4	6.9	3.3	126	794	44.1	1.04	59.0
4/25/12	10.7	44	7.4	6.8	3.5	131	860	46.6	1.39	57.2
7/10/12	8.8	45	7.1	7.2	3.0	98.9	748	43.0	1.1	40.3
10/1/12	8.6	49	7.2	9.2	2.1	129	1000	45.2	1.05	29.3
Avg	9.8	45	7.28	7.5	3.0	121	851	44.7	1.15	46.5
Max	10.9	49	7.4	9.2	3.5	131	1000	46.6	1.39	59.0
Min	8.64	43	7.1	6.8	2.1	98.9	748	43.0	1.04	29.3
# of samples	4	4	4	4	4	4	4	4	4	4

	Molybdenum mg/kg	Potassium % wt	Selenium mg/kg	Silver mg/kg	Zinc mg/kg	Ammonia % wt	Nitrate % wt	Total Nitrogen % wt	Phosphorus % wt
DATE	MO	K	SE	AG	ZN	NH4	NO3	TKN	P
1/11/12	37.0	0.095	5.4	48.5	1030	0.921	0.001	3.53	2.52
4/25/12	40.4	0.111	5.2	43.8	1320	0.988	0.001	3.95	2.96
7/10/12	35.7	0.097	6.0	34.2	1080	1.09	0.0012	4.05	4.3
10/1/12	25.8	0.11	7.2	20.5	1040	1.42	0.0012	4.72	4.09
Avg	34.7	0.10	6.0	36.8	1118	1.10	0.0011	4.06	3.47
Max	40.4	0.111	7.2	48.5	1320	1.42	0.0012	4.72	4.3
Min	25.8	0.095	5.2	20.5	1030	0.92	0.0010	3.53	2.52
# of samples	4	4	4	4	4	4	4	4	4

**PUBLIC NOTICE  
OF INDUSTRIAL DISCHARGE IN  
SIGNIFICANT NONCOMPLIANCE**

Listed below are industrial users identified as being in significant non-compliance with the City of Sturgis Sewer Use Ordinance and/or the Federal Pretreatment Regulations 40 CFR 403 during the 2012 Calendar Year. This list is published pursuant to the requirements of Section 62-116 (2) of the City of Sturgis Sewer Use Ordinance and Federal Regulations 40 CFR 403.8(f)(2)(vii).

**MIDWEST TOOL & CUTLERY**  
1210 Progress St., Sturgis, MI 49091

Met the criteria established for Technical Review Criteria of the daily maximum for Total Suspended Solids, during the period of January 2012 - September 2012. Contact and resolution was made on April 12, 2012. Midwest Tool & Cutlery provided data on April 25, 2012 demonstrating return to compliance with the permit limits.