Annual Public TRA Summary Report- Plasti-Fab Kitchener
Operational Comparison 2015-2016

Basic Facility Information

Name & CAS of Substance	VOC(Pentane)		NA-M16
	Particulate Matter 2.5 (PM2.5)		NA-M10
Facility Identification and Site Address			
Company Name	Plasti-Fab Ltd		
Facility Name	Kitchener Manufacturing Plant		
Facility Address	Physical Address		Mailing Address
	1214 Union St. Kitchener, ON N2H 6K4		PO Box 1120, Kitchener, ON N2G 4G1
Spatial Coordinates of Facility	Zone 17 Easting: 541955 Northing: 4813389		UTM NAD83
Number of Employees	52		
NPRI ID	6891		
Ontario MOE ID number	7282		
Parent Company (PC) Information			
PC Name & Address	PFB Corporation		Publically traded - TSX
Primary North American Industrial Classification System Code (NAICS)	5 Digit	326140 Polystyrene foam product manufacturing	
	4 Digit	3261 Plastic Product manufacturing	
	2 Digit	32 Manufacturing	
Company Contact Information			
Facility Public Contact and Highest Ranking Employee	Tim Dillow		*Manufacturing Manager*
	tdillow@plastifab.com		Phone: 519-571-1650 ext 380
Facility Technical Contact	John Brazzale, Director, HSE		Box 88 802 McCool St. Crossfield, AB, T0M0S0
	jbrazzale@plastifab.com		Phone: 403-946-6248

STATEMENT OF INTENT

At PFB Corporation (parent company of Plasti-Fab Ltd.), we are concerned with the future of the planet and the effects that modern life styles may be having on climate change. PFB Corporation is committed to conducting our operations responsibly, mindful of the economic, environmental and social impacts of our operations. We have always placed environmental protection at the highest level of importance in our products, our processes and our practices. It is our intent to continue reducing our impacts on the environment that occur as a result of manufacturing energy saving insulation solutions for our customers.

Plasti-Fab Kitchener intends to implement the reduction options identified for VOC (Pentane) to reduce the overall usage and emissions by 2017. The creation of PM2.5 is a result of a specific operation within the process as well as a product of combustion, at this time there is no intent to reduce this substance due to the lack of technically feasible options.

TOXIC SUBSTANCES

Two (2) substances were required to be tracked, quantified and reported for under TRA – Phase 2 requirements for the 2012 operational year. These substances are VOC (Pentane) and Particulate Matter 2.5. Reporting completed to the Ministry of Environment under O.Reg. 455/09 through SWIM.

VOC Summary

VOC (Pentane) is contained in the resin material used to produce EPS foam insulation products for residential and commercial construction market and for consumers.

The reduction strategy described in the plan is to purchase new equipment which will facilitate the transition to alternate raw material (EPS Resin) containing less VOC (Pentane) and therefore will reduce VOC (Pentane) entering the process and released.

The estimated reduction of VOC (Pentane) releases is estimated to be 9.1% or 11.5 tonnes annually compared to 2015 levels of production and releases.

Particulate Matter 2.5 Summary

Particulate matter (PM2.5) is created by the combustion of natural gas for process steam production, general heating and during the foam cutting process. A strategy has been developed to improve the quality of emission data for this substance. There is no reduction strategies planned for this substance.

TRACKING AND QUANTIFICATIONS

The method used to calculate the TRA quantifications was a mass balance approach based on production records and emission estimates and published AP-42 emission factors.

Table 1 is a summary of reported TRA quantities for the 2016 operational year. VOC (pentane) used and releases decreased in 2016 as a result of changes in production levels and implementation of toxics reduction action plan.

There was no significant change in the creation of PM2.5. Any small change identified is directly related to changes in production levels.

In the 2016 operational year, there were no out of the ordinary incidents or significant process changes at the facility.

Table 1: Comparison of Quantities Reported		
CAS	NA-M16	NA-M10
Substance	VOC (Pentane)	PM2.5 - Particulate Matter
Description of Processes that Use or Create Substance	Used as a formulation component	Foam Cutting and Supporting Operations
Reporting under NPRI Part	Part 1	Part 4
NPRI Threshold (tonnes)	10 (MPO)	0.3 (Release)
2016 Used (tonnes)	>100 -1000	0
2015 Used (tonnes)	>100 -1000	0
% Change	-14%	0%
2016 Created (tonnes)	0	>0-1
2015 Created (tonnes)	0	>0-1
% Change	0%	-2%
2016 Releases - Air (tonnes)	>10-100	>0-1
2015 Releases - Air (tonnes)	>10-100	>0-1
% Change	-14%	0.20%
Reason for Changes	Changes to production levels & Implementation of TRA reduction plan	No significant change

Table 2: Changes in Quantifications, Quantities and Plan Updates 2016		
CAS	NA-M16	NA-M10
Substance	VOC (Pentane)	PM2.5 - Particulate Matter
Quantification Method(s) Used	Mass Balance/Emission Factors	Mass Balance/Emission Factors
Change in Quantification Method Used	No change	No change
Rationale for Using Selected Method(s)	No site specific monitoring data available	Best available method
Incidents out of the Ordinary	No	No
Significant Process Change	No	No
Objectives, Descriptions, Targets	New Equipment installation to allow change to alternate feedstock containing less VOC	No reduction options were identified to be both technically and economically feasible.
Actions	Equipment installation implemented May 2016. Transition to alternate feedstock underway.	None
Amendments	None	None

COMPARISION OF TRACKING AND QUANTIFICATION

No changes were made in the quantification and tracking methodology from 2015 to 2016.

DESCRIPTION OF STEPS TAKEN TO ACHIEVE OBJECTIVE AND ASSESS EFFECTIVNESS

There was no technologically feasible reduction strategy objectives identified for PM2.5 within the facility and as such there was no economic feasibility study completed for this substance.

The reduction strategy identified for the VOC (Pentane) substance was implemented mid-2016. New equipment was installed an allowed the transition to alternate feedstock for last 6 months of 2016. This change resulted in a reduction of 7% VOC (pentane) used and released as a direct result of the steps taken.

Table 2 provides a summary of the facility TRA changes and updates which took place in 2016.

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 26/05/2017, I, Tim Dillow, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

TRA Substance List

CAS RN	Substance Name
NA - 35	Pentane (all isomers)
NA - M08	Total Particulate Matter
NA - M16	Volatile Organic Compounds (VOCs)

Company Name

Plasti-Fab Ltd.

Highest Ranking Employee

Tim Dillow

Report Submitted by

John Brazzale

Website address

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.