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BRADLEYS

07th September 2016

SOLVENT MANAGEMENT PLAN 2015-2016

References:

A. Ipswich Borough Council Permit Reference: EP38/3/LB

FOREWORD

1. The attached SMP is submitted in accordance with Reference A.

SMP REVIEW FINDINGS

2. The initial findings identify that there has been a 1.27% reduction in Fugitive Emissions.

3. The implementation of a dedicated Wash Down area has significantly reduced the reliance on degreasing agents:

2014-2015 = 1080 Kgs (Cromadex)

2015-2016 = 670 Kgs (Cromadex)

4. The quantity of Paint Equipment cleaner used (Safetykleen) has not significantly reduced this year due to the Recycling Equipment installed being temporarily removed from service. Now the equipment has been reinstated (as witnessed during your visit) we hope to substantially reduce this usage also in the coming year.

5. If you require further clarification, please do not hesitate to contact me.

W L Ashcroft
Operational Systems Manager

Bradleys Metal Finishers Solvent Plan

Permit Ref: EP38/3/LB

01 Sep 2015 to 31 Aug 2016

SUPPLIER	TOTAL USED (KGS)	SOLVENT CONTENT (%)	SOLVENTS (KGS)	
Trimite	187.31	83.93%	157.21	
Hempel	63.89	30.65%	19.58	
IP&PS	1023.00	56.16%	574.52	
Cromadex	255.26	45.16%	115.28	
Sherwin Williams	8451.61	32.96%	2785.65	
International	4626	27.30%	1262.90	
Safety Kleen	4500	85.00%	3825.00	*Paint Equipment Cleaning
Cromadex	657	73.00%	479.61	*Surface Cleaning
	<u>19764.07</u>		<u>9219.7424</u>	

Mass Balance Calculation

	<u>Kgs</u>	
I ₁ Quantity of Organic Solvents	9219.74	
O ₁ Emissions in Waste Gases	6727.04	
O ₂ Solvents Lost in Water	0.00	
O ₃ Solvents in Residue	0.00	
O ₄ Uncaptured to Air	664.00	2% of Total + Surface Cleaning
O ₅ Lost Due to Reaction	0.00	
O ₆ Solvents in Collected Waste	0.00	
O ₇ Organic Solvents Sold	0.00	
O ₈ Solvent Waste Recycling	1736.50	Solvent and Paint Mix
O ₉ Spillage / Leakage	92.20	1% of Total

Fugitive Emissions (F)

$$F = O_2 + O_3 + O_4 + O_9 = \underline{\underline{756.20227}}$$

Consumption (C)

$$C = I_1 - O_8 = \underline{\underline{7433.2424}}$$

$$\underline{\underline{\text{Fugitive Emission Value}}} = F / I_1 + I_2 \times 100\% = \underline{\underline{10.11\%}}$$