CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2021
DateRun:	11/17/2021
Experimenters:	Nicole Kebler, Tatyanna Moreland Junior
ClientType:	Lab
ProjectNumber:	Project #5
Substrates:	Ceramics, Plastic, Painted metal
PartType:	Coupon
Contaminants:	Hucker's Soil
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric, Visual
Purpose:	To evaluate the effectiveness for the removal of Huckers soil from ceramic, painted metal, and plastic using Honest cleaner.
Experimental Procedure:	Three coupons of each substrate (ceramic, painted metal, and plastic) were collected and initial weights were taken. Huckers soil was applied to each coupon and allowed to air dry for 24 hours. After the 2 hour dry time, the weights of the newly contaminated coupons were measured. All coupons were placed into a Straight-Line Washability (SLW) machine. A KC Wypall cleaning cloth was attached to the cleaning block used for the test. The Wypall cloth and all coupons received 2 sprays of the Honest Cleaner and the SLW machine was run for 20 repetitions, simulating 20 manual wipes. Once cleaning concluded, the cleaned coupons were allowed to air dry for 24 hours. After 24 hours, the weights of the cleaned coupons were measured.
Results:	Honest cleaner had an average removal of 95% for plastic, 80% for ceramic and 77% for painted metal. There was some soil left on the ceramic and painted metal coupons but not on the plastic.

Substrate	Initial wt. of cont.	Final wt. of cont	Average	Combined Average
Ceramic	0.1058	0.0217	79.49	79.99
	0.1433	0.0217	84.86	
	0.0972	0.0237	75.62	
Painted Metal	0.115	0.0176	84.70	77.32
	0.0857	0.0194	77.36	
	0.0811	0.0244	69.91	
Plastic	0.1105	0.0147	86.70	95.48
	0.1077	0.0025	97.68	
	0.0825	-0.0017	102.06	

Summary:

Conclusion: Honest cleaner was effective for the removal of Huckers soil on plastic and left some soil behind on ceramic and painted metal.