CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 07/18/2021

Experimenters: Ross Goding, Edward Judge

ClientType: Lab

ProjectNumber: Project #4

Substrates: Glass/Quartz, Other, Chrome

PartType: Coupon

Contaminants: Glass

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test the effectiveness of Cleaning Vinegar in the removal of SSL Soil 2 Glass Soil from various substrates.

Experimental Procedure: A Cleaning Vinegar solution was gathered to begin testing. Then, 3 coupons of each substrate (chrome, glass, mirror) were collected and initial weights were taken. SSL Soil 2 Glass Soil was applied to each coupon and allowed to air dry for 24 hours. After the 24 hour dry time, the weights of the newly contaminated coupons were measured. All coupons were placed into a Gardner-scrub Abrasion Tester machine. Wypall cleaning cloths were attached to each of the 3 cleaning blocks used for the test. Each Wypall cloth and all coupons received 2 sprays of the Cleaning Vinegar solution and the Gardner-scrub Abrasion Tester 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:

Cleaner	Substrate	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG	% Overall
Cleaning Vinegar	Chrome	0.1055	0.0044	95.83	89.46	93.14
		0.3700	0.0042	98.86		
		0.2261	0.0814	64.00		
	Glass	0.5583	0.0047	99.16	95.44	
		0.7716	0.0039	99.49		
		0.7667	0.0946	87.66		
	Mirror	0.3955	0.0047	98.81	94.52	
		0.5424	0.0059	98.91		
		0.6009	0.0851	85.84		

Summary:

Substrates:	Glass/Quartz, Other, Chrome				
Contaminants:	Glass				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Acros Organic	Acetic Acid		93.14	☐	

Conclusion: Cleaning Vinegar showed success in the removal of Glass Soil from chrome, glass, and mirror substrates.