CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2020

DateRun: 09/08/2020

Experimenters: Nicole Kebler

ClientType: Cleaning Company

ProjectNumber: Project #1

Substrates: Porcelain

PartType: Coupon

Contaminants: Food

Cleaning Methods:

Analytical Methods: Gravimetric

Purpose: To evaluate solid dish soap and compare to major brands and safer alternatives.

Experimental Procedure: Initial weights were first taken before soiling the 44 plates. Plates were then soiled with 2.25 g of soil (+/-0.2g). Dirty weights are taken. Setup of the dish soap container consisted of putting soap into the container, then using a brush to gather soap for 5 seconds. Plates were washed in a circular motion for 10 seconds with a 1 second rinse. The plates were air dried for an hour+ before the final weights were taken and recorded.

Results:

Cleaners	Plate #	Initial	Dirty	Clean	Cleaners	Plate #	Initial	Dirty	Clean
A	1	438.98	441.39	439.15	C	1	438.98	441.2	439.06
	2	480.75	483.1	480.83		2	480.75	482.84	480.78
	3	428.11	430.87	428.22		3	428.11	430.39	428.16
	4	459.92	462.51	459.97		4	459.92	461.95	460.07
	5	433.87	436.78	433.9		5	433.87	436.06	433.88
	6	466.05	468.8	466.09		6	466.05	468.41	466.12
	7	417.47	420.12	417.6		7	417.47	419.68	417.6
	8	465.12	467.55	465.18		8	465.12	466.49	465.16
	9	401.54	404.13	401.8		9	401.54	403.66	401.68
	10	397.48	399.79	397.58		10	397.48	399.54	397.58
	11	453.77	456.29	453.83		11	453.77	456.35	453.91
B	12	429.9	432.3	430.09	D	12	429.9	431.93	429.98
	13	468.17	470.68	468.28		13	468.17	470.4	468.28
	14	436.58	438.96	436.64		14	436.58	438.32	436.67
	15	464.19	466.71	464.32		15	464.19	466.51	464.25
	16	468.93	471.44	468.92		16	468.93	471.12	469.02
	17	425.55	428.25	425.59		17	425.55	427.28	425.59
	18	421.92	424.5	422		18	421.92	423.92	422.07
	19	410.67	413.53	410.79		19	410.67	412.91	410.7
	20	446.79	449.2	446.87		20	446.79	449.04	446.97
	21	449.85	452.36	449.94		21	449.85	452.22	450.03
	22	469.85	471.73	469.6		22	469.38	471.76	469.5

Summary:

Conclusion: Ardent goods seemed to remove the same amount soil off of the coupons as compared to Dawn, Joy, and Mrs. Meyers.