CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2005
DateRun:	11/14/2005
Experimenters:	Jason Marshall
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #1
Substrates:	Ceramics, Fiberglass, Chrome
PartType:	Coupon
Contaminants:	Soaps
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric
Purpose:	To evaluate supplied product for bathroom cleaning on three substrates.

Experimental Procedure:

The supplied cleaning product was diluted to vendor recommended concentration for bathroom cleaning (1.56%). The product was diluted with DI water.

Three preweighed fiberglass, three ceramic and three chrome coupons were coated with SSL Soil 1 (Bathroom soap scum: Vaseline Dry Skin Lotion 21.4%, Dial Clean Rinsing Body Wash 14.3%, Market Basket Shampoo & Conditioner (Pert) 28.6%, Soft Soap Natural Liquid hand soap 21.4%, Coast Deodorant bar soap 7.2% and Water 7.1%) using a hand held swab and allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added.

Three coupons were placed into a Gardner Straight Line Washability unit. A Professional Painter's Rag was attached to the cleaning sled and soaked with 5-7 sprays of cleaning solutions. Each coupon was sprayed 7-10 times with the same cleaning solution. The cleaning unit was run for 20 cycles (~33 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded. Efficiencies were calculated and recorded.

Results:

The diluted product had little difficulty with SSL Soil 1 on all three substrates. The table below lists the amount of soil added, removed and the efficiency for each coupon cleaned.

Table 1. Soil Removal

Substrate	Initial wt	Final wt	% Removed
Ceramic	0.1816	0.0193	89.37
	0.2983	0.0046	98.46
	0.2714	0.0107	96.06
Fiberglass	0.5200	0.0620	88.08
	0.3719	0.0559	84.97
	0.3492	0.0560	83.96
Chrome	0.1658	0.0203	87.76
	0.2028	0.0200	90.14
	0.2251	0.0221	90.18

Summary:

Substrates:	Ceramics, Fiberglass, Chrome
Contaminants:	Soaps

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Cogent Environmental Solutions	DFC Degreaser	1.56	89.89	☑	

Conclusion:

The product was successful in removing at least 85% of the applied soil.