CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2006
DateRun:	07/13/2006
Experimenters:	Jason Marshall
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #1
Substrates:	Ceramics, Fiberglass, Chrome
PartType:	Coupon
Contaminants:	Films, Soaps
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric
Purpose:	To evaluate supplied products for bathroom cleaning on three substrates.
Experimental Procedure:	One supplied cleaning products were diluted to vendor recommended concentration for bathroom cleaning (20:1) diluted with DI water and the second was used at full strength. Six preweighed fiberglass, six ceramic and six 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 DFC Degreaser had some difficulty removing the Bathroom soil from the ceramic coupons. The table lists the amount of soil added, the amount remaining and the percent removed for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
Degreaser Ceramic	0.3128	0.0629	79.89
	0.3580	0.0686	80.84
	0.3404	0.0721	78.82
Cogent Sodium hypochlorite Ceramic	0.1586	0.0497	68.66
	0.1879	0.0094	95.00
	0.3361	0.0416	87.62
Degreaser Chrome	0.3419	0.0365	89.32
	0.3891	0.0569	85.38
	0.1665	0.0293	82.40
Cogent Sodium hypochlorite Chrome	0.4488	0.0382	91.49
	0.3557	0.0320	91.00
	0.3266	0.0311	90.48
Degreaser Fiberglass	0.2755	0.0169	93.87
	0.3005	0.0144	95.21
	0.3866	0.0231	94.02
Cogent Sodium hypochlorite Fiberglass	0.2047	0.0127	93.80
	0.4084	0.0155	96.20
	0.2858	0.0152	94.68

Summary:

Substrates:	Ceramics, Fiberglass, Chrome				
Contaminants:	Films, Soaps				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**

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Cogent Environmental Solutions	DFC Degreaser	5	86.64	☑	
Cogent Environmental Solutions	DFC Sodiumhypochlorite 0.02	100	89.88	☑	

Conclusion: Both products removed over 85% of the Bathroom soil mix.