CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2006
DateRun:	08/22/2006
Experimenters:	Jason Marshall
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #1
Substrates:	Glass/Quartz, Chrome
PartType:	Coupon
Contaminants:	Films, Soaps
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric
Purpose:	To evaluate supplied product for glass cleaning.

Experimental Procedure:

The supplied cleaning product was diluted to vendor recommended concentration for glass cleaning (10%). The product was diluted with DI water.

Three preweighed chrome and three glass coupons were coated with SSL Soil 2 (Glass soap scum: Colgate Regular shaving cream 5.3%, Arid Extra Extra Spray Deodorant 3.5%, Suave Naturals Flexible Hold hair spray 3.7%, Aleeda Texturizing hair gel 25.6% Colgate Total toothpaste 10.4%, Water 51.5%) by pump spraying the mix. The soil was 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 5 cycles (~9 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 supplied product removed over 85% of the soil from the two substrates. The table below lists the amount of soil applied and removed from the coupons.

Cleaner	Initial wt	Final wt	% Removed
DFC Glass-Glass	0.0468	0.0006	98.72
	0.0354	0.0003	99.15
	0.0325	0.0009	97.23
Water-Glass	0.0611	0.0079	87.07
	0.0774	0.0152	80.36
	0.0621	0.0157	74.72
DFC Glass-Chrome	0.0798	0.0080	89.97
	0.0644	0.0107	83.39
	0.0609	0.0060	90.15
Water-Chrome	0.1372	0.0256	81.34
	0.0868	0.0168	80.65
	0.1462	0.0231	84.20

Summary:

Substrates:	Glass/Quartz, Chrome				
Contaminants:	Films, Soaps				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Cogent Environmental Solutions	DFC Glass	10	98.37	☑	Glass
Cogent Environmental Solutions	DFC Glass	10	87.84	☑	Chrome

Conclusion:

The overall efficiency of the DFC Glass cleaner was 93.10, passing the cut off of 85% established for the Massachusetts EPP janitorial cleaning evaluations.