CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2009

DateRun: 02/03/2009

Experimenters: Jason Marshall, Junhee Cho

ClientType: Light Manufacturer

ProjectNumber: Project #1

Substrates: Plastic

PartType: Part

Contaminants: Carbon Deposits

Cleaning Methods: Manual Wipe

Analytical Methods: Visual, Wipe

Purpose: To evaluate top cleaning products on supplied parts using spray bottle and wiping.

Experimental Procedure: The top seven products from the previous trial were selected to clean the supplied parts. The client's current products also were included for comparative purposes. Each product was sprayed onto the dirty part coated with carbon black. The cleaning product was then wiped with minimal agitation using a Kimberly Clark Wypall X60 reinforced wiper. Observations were made and products were ranked based on visual observations and wipe rankings.

Results: Many of the alternatives worked better that the current product. The visual rankings are listed in the table below.

Product	Ranking
EnviroCare Glass Cleaner	6
Clorox Glass & Surface	7
Clorox Natural Glass Cleaner	4
Stay Clean Glass Cleaner	8
Biorenewables Glass Cleaner	5
Glass and Window Answer	2
101 Neutral Glass Cleaner	1
Amberclean Q3	3

Summary:

Substrates:	Plastic				
Contaminants:	Carbon Deposits				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Rochester Midland Corporation	EnviroCare Glass Cleaner	5	0.00	☐	
Clorox Company	Green Works Glass and Surface Cleaner	100	0.00	☐	
Clorox Company	Green Works Natural Glass Cleaner	100	0.00	☑	
1st Envirosafety Inc. - No Longer Exists	Stay Cleaner Colloidal Glass Cleaner - For Comparison Purposes Only	100	0.00	☐	
Spartan Chemical Company	Biorenewables Glass Cleaner	5	0.00	☑	
Environmental Care and Share	Glass and Window Answer	100	0.00	☑	
Next-Gen Supply Group	PC 101 Neutral and Glass Cleaner	100	0.00	☑	
Innovative Organics Inc	Amberclean Q3	5	0.00	☑	

Conclusion:

CLEANING LABORATORY EVALUATION SUMMARY

Parts returned to client for follow up analysis. Lab piloting of top products may be conducted to determine the optimum cleaning conditions.