CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 08/26/2003

Experimenters: Jason Marshall

ClientType: Printing Company

ProjectNumber: Project #1

Substrates: Textile

PartType: Part

Contaminants: Paints, Dirt

Cleaning Methods: Manual Wipe

Analytical Methods: Visual

Purpose: To evaluate additional cleaning products on supplied T-shirts

Experimental Procedure: Two products from the previous trials were selected based on their past performance in paint removal. Two additional products were selected based on their compatibility with the t-shirt and possible ink removal. A fifth product was selected based on the vendor information. Each product was used at full strength and allowed to soak on the surface for 10 minutes at room temperature. After soaking, the t-shirt was rubbed manually with a paper towel in attempt to remove the paint and dirt. Observations were made after the t-shirt air dried.

Results: Of the fiver products, only one, H2Orange2, appeared to be effective in removing the dirt lines from the t-shirt. A second product from the same company removed only a small amount of the dirt marks. The H2Orange2 product did remove a thin strip of paint that was below the main body of the desired image on the shirt. The Graffiti Remover removed paint from the main painted area on the shirt. The other products had no effect on the cured paint. The table below lists the observations made during the trial.

Cleaner	Observation
Bio T Max	No paint removal nor dirt removal
D-Limonene	No paint removal nor dirt removal
Grout Safe	No paint removal but little dirt removal
H2Orange2	Little paint removal but some dirt removal
Graffiti Remover	Paint removal but no dirt removal

Summary:

Substrates:	Textile
Contaminants:	Paints, Dirt

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Bio Chem Systems	Bio T Max	100	0.00	☐	
Florida Chemical Company	D-Limonene	100	0.00	☐	
EnvirOx LLC	Grout Safe	100	0.00	☐	
EnvirOx LLC	H2Orange2	100	0.00	☑	Dirt
Finger Lakes Chemical	Graffiti remover	100	0.00	☑	Paint

Conclusion: Envirox LLC H2Orange2 was effective in removing a dirt stain from the shirt as well as a some paint not in the main paint design area. The Finger Lakes Chemical Graffiti Remover was very effective in removing the cured paint, but had little to no success on the dirt.