CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2003
DateRun:	06/06/2003
Experimenters:	Jason Marshall
ClientType:	Printing Company
ProjectNumber:	Project #1
Substrates:	Textile
PartType:	Part
Contaminants:	Inks
Cleaning Methods:	Manual Wipe
Analytical Methods:	Photography
Purpose:	To evaluate successful cleaners on cloth substrate
Experimental Procedure:	Four products from previous trials were selected to be evaluated for ink removal from cloth substrate. Three products were used at full strength. The fourth was diluted to 20% using DI water in a 600 ml beaker. All four were used at room temperature. Four pieces of cotton cloth were photographed using a Kodak Digital Science DC260 Zoom camera. These pieces were then contaminated in several spots with PolysOne Kennesaw Wiflex MX Mixing Colors -black (85-68-7, 9002-86-2) using a hand held swab. A second photograph was taken. A paper towel was soaked with each cleaner and used to manually wipe the ink from the cloth. A maximum of ten minutes was allowed for cleaning each spot. Final photographs were taken and observations were made.
Results:	The three semi-aqueous products had some success, removing most of the ink from the cloth. All cleaners resulted in smearing the ink across the cloth. The figures show pre-soil, soiled and after cleaning of each cloth strip.

Summary:

Substrates:	Textile				
Contaminants:	Inks				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Bio Chem Systems	Bio T Max	100		☑	
Florida Chemical Company	D-Limonene	100		☑	
Vertec BioSolvents	Ink Zapper	100		☑	
Phase III Inc	California Parts Washer Solution	20		☐	

Conclusion: Additional testing will be performed to further test the effectiveness of the semi-aqueous products.