CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2014

DateRun: 10/02/2014

Experimenters: Carla De La Cruz

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Rubber

PartType: Coupon

Contaminants: Coatings, Dirt

Cleaning Methods: Manual Wipe

Analytical Methods: Visual

Purpose: To evaluate supplied products efficiency in cleaning an array of surfaces

Experimental Procedure: Supplied products were used according to the directions on the respective box. Three supplied cleaners and water were used. For this test, an already dirty section of the office floor was taped off into three 12”x12” sections (for each solution), cleaned and then analyzed to determine how clean it was after the use of the erasers. The floor was cleaned in the following fashion:

1. An eraser was taken and depending on whether it was an Eco eraser or a conventional one it was soaked in water for five to ten seconds (the Eco eraser did not need the addition of water).
2. A subsection of the section was then scrubbed for twenty seconds using gentle circular motions.
3. The entire section was then scrubbed for two minutes, using the same gentle circular motions.

Preparation of Erasers:
Two of the erasers, the Magic Eraser, and the Eraser Pads were soaked in water for five seconds and then squeezed to get rid of excess water. The Eco Eraser did not require any preparation.

Chemistries Evaluated: Water; Eco Eraser; Magic Eraser; Eraser Pads;

Results: The floor section designated for the Eco Eraser did best in the first testing of subsections that were cleaned for twenty seconds, although it left a significant amount of residue. The section cleaned with the Eraser Pads cleaned next best, and the least clean section was that for the Magic Eraser. In the second testing, the floor sections were scrubbed completely for two minutes. The Eco Eraser was able to clean the surface but left behind a lot of residue, it also was rather difficult to scrub to some friction with the ground. We later realized that the Eco Erasers had to be rinsed after each use to keep it from drying. In this case it was the Eraser Pads which did best and effectively cleaned the floor in the two-minute time span of the test. While once again the Magic Eraser did not perform as well as the other two erasers.

The table lists the cleaners and the degree to which the floor was evaluated to have been cleaned.

Scale: 100%=completely clean 0%=still dirty

Cleaner	Cleanliness (20 seconds)	Cleanliness (2 minutes)	Avg. Cleanliness
Eco Eraser	90%	80%	85%
Magic Eraser	80%	80%	80%
Eraser Pads	90%	90%	90%

Summary:

Substrates:	Rubber				
Contaminants:	Coatings, Dirt				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
A & C Green Cleaner LLC	A & C Eraser	100	85.00	☑	
Fisher Scientific	Absolute Ethanol	0	0.00	☐	
Mr Clean	Mr Clean Magic Eraser	100	80.00	☑	

Conclusion: The Eco Erasers worked best at cleaning small sections, while Eraser Pads will effectively clean larger sections of office floors.