# CLEANING LABORATORY EVALUATION SUMMARY

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|---|---|
| SCL #: | 2021 |
| DateRun: | 12/15/2021 |
| Experimenters: | Zoe Lawson |
| ClientType: | Lab |
| ProjectNumber: | Project #7 |
| Substrates: | Ceramics, Plastic, Chrome |
| PartType: | Coupon |
| Contaminants: | SSL Soil 1 Bathroom Soap Scum |
| Cleaning Methods: | Manual Wipe |
| Analytical Methods: | Gravimetric |
| Purpose: | Control testing to monitor bathroom soil consistency. |
| Experimental Procedure: | Nine pre-weighed coupons, three of each substrate per cleaner, were each contaminated with ~0.5 gram of bathroom soil (28.6% All-in-one shampoo and conditioner, 21.4% Dry skin lotion, 21.4% Liquid Hand Soap, 14.3% Liquid body wash, 7.2% Deodorant bar soap, 7.1% Water). The dirty weights were recorded after the coupons had dried for 24 hours at room temperature (68 F). Three coupons of the same substrate were aligned into a Single Line Washing Unit (SLW) with The Wypall X60 attached to the cleaning sled. The Wypall X60 reinforced wipe along with the coupons were all sprayed two times with the cleaner and then allowed to soak for 30 seconds. Afterwards the Single Line Washing Unit (SLW) was activated and cleaned for 20 cycles. The clean coupons were all then allowed to dry overnight at room temperature before the final weights were recorded. |

Results:

| Cleaner | Substrate | Initial wt of cont. | Final wt of cont. | %Cont Removed | % AVG | % Overall |
|---|---|---|---|---|---|---|
| Water | Chrome | 0.5220 | 0.0840 | 83.91 | 84.97 | 85.83 |
| | | 0.8444 | 0.1341 | 84.12 | | |
| | | 0.4601 | 0.0604 | 86.87 | | |
| | Ceramic | 0.5715 | 0.0834 | 85.41 | 85.85 | |
| | | 0.5232 | 0.0776 | 85.17 | | |
| | | 0.5299 | 0.0690 | 86.98 | | |
| | Plastic | 0.6144 | 0.0802 | 86.95 | 86.67 | |
| | | 0.5535 | 0.0590 | 89.34 | | |
| | | 0.5220 | 0.0850 | 83.72 | | |

Summary:

Conclusion: The overall removal percentage for this control test was 85.83%.