



Alianza Verde Automotriz

ADMINISTRATION OF CHEMICALS

Group: Materials & Waste Management and

Resource Creation

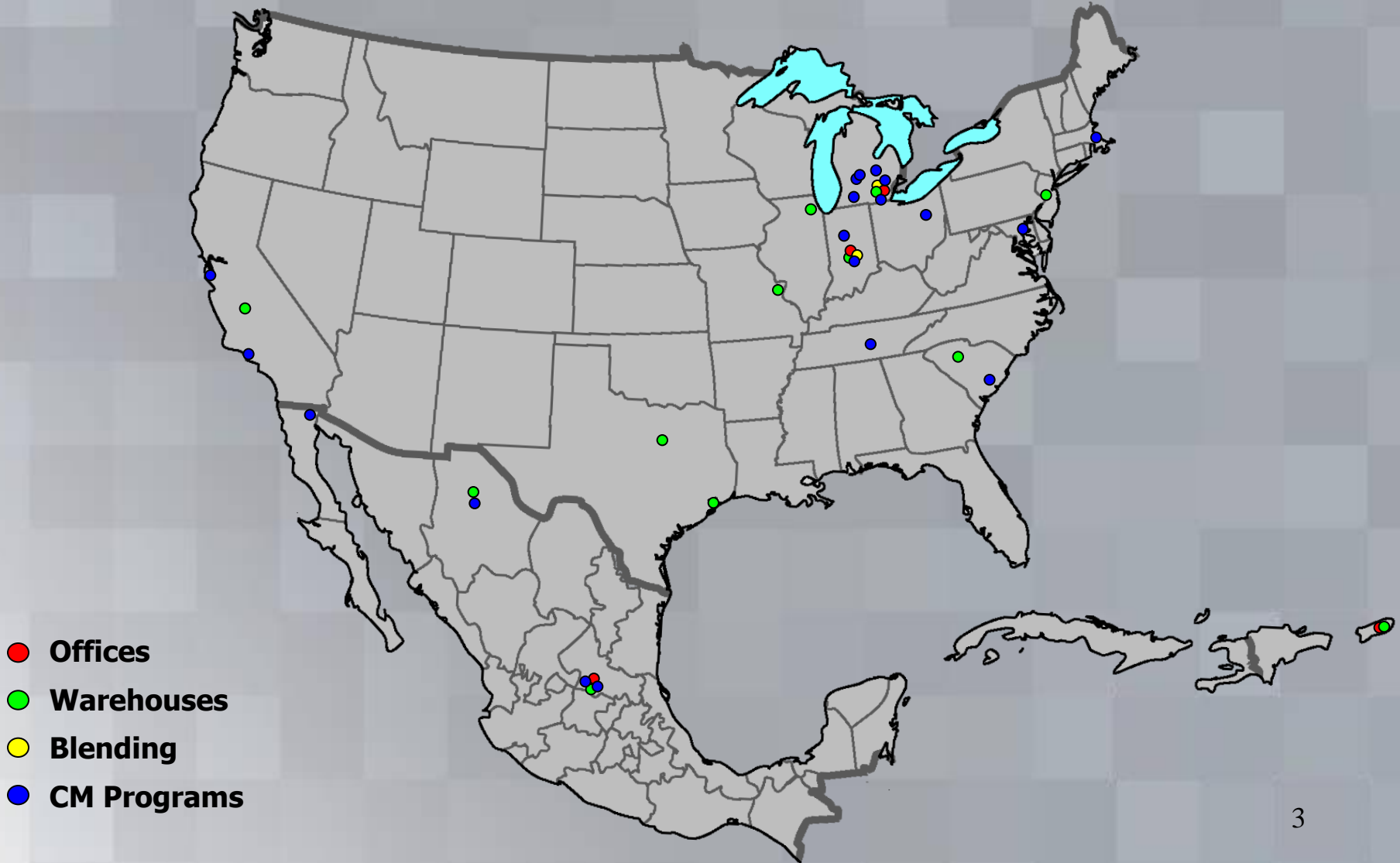
May 24, 2012

Chemico  **Mays**

ChemicoMays, LLC

- ❑ **Mays Chemical and ChemicoSystems and have merged to create ChemicoMays, LLC, a company dedicated to offering CHEMICALS MANAGEMENT experience in purchasing, distribution and logistics to improve service in the use of chemicals.**
- ❑ **Leading Chemicals Management since 1999.**
- ❑ **Certified ISO 9000 and ISO 14000;**
- ❑ **Key member of the community of Chemicals Management**
 - **CMS Forum**
 - **Suppliers Partnership for the Environment.**
- ❑ **Received Award of Excellence for General Motors Environment 2007;**
- ❑ **Award "Supplier of the Year" 3 CONSECUTIVE YEARS 2009-2011, General Motors.**

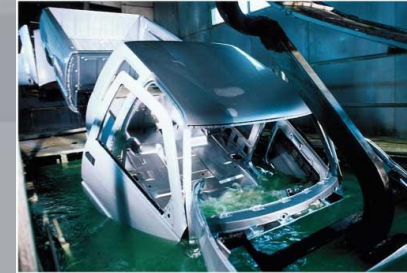
ChemicoMays Facilities



Projects to Reduce Chemical Consumption

Project # 1: Replace acetone with water-based alternative

- Phosphate Zone Paint (solvent wipe operation)
- Before: 3,500 liters of acetone per year consumption
- After: 0 liters of acetone (1,000 liters of alternative)
- Safer for employees, less EPP, no VOC



Project # 2: Using advanced technology detack

- Detack operation is a critical part in painting operation
- Before: 1,000 liters per month
- After 200 liters per month
- Alternative price per liter more expensive, but much less in total consumption
- 98% compound good for the environment
- no formaldehyde

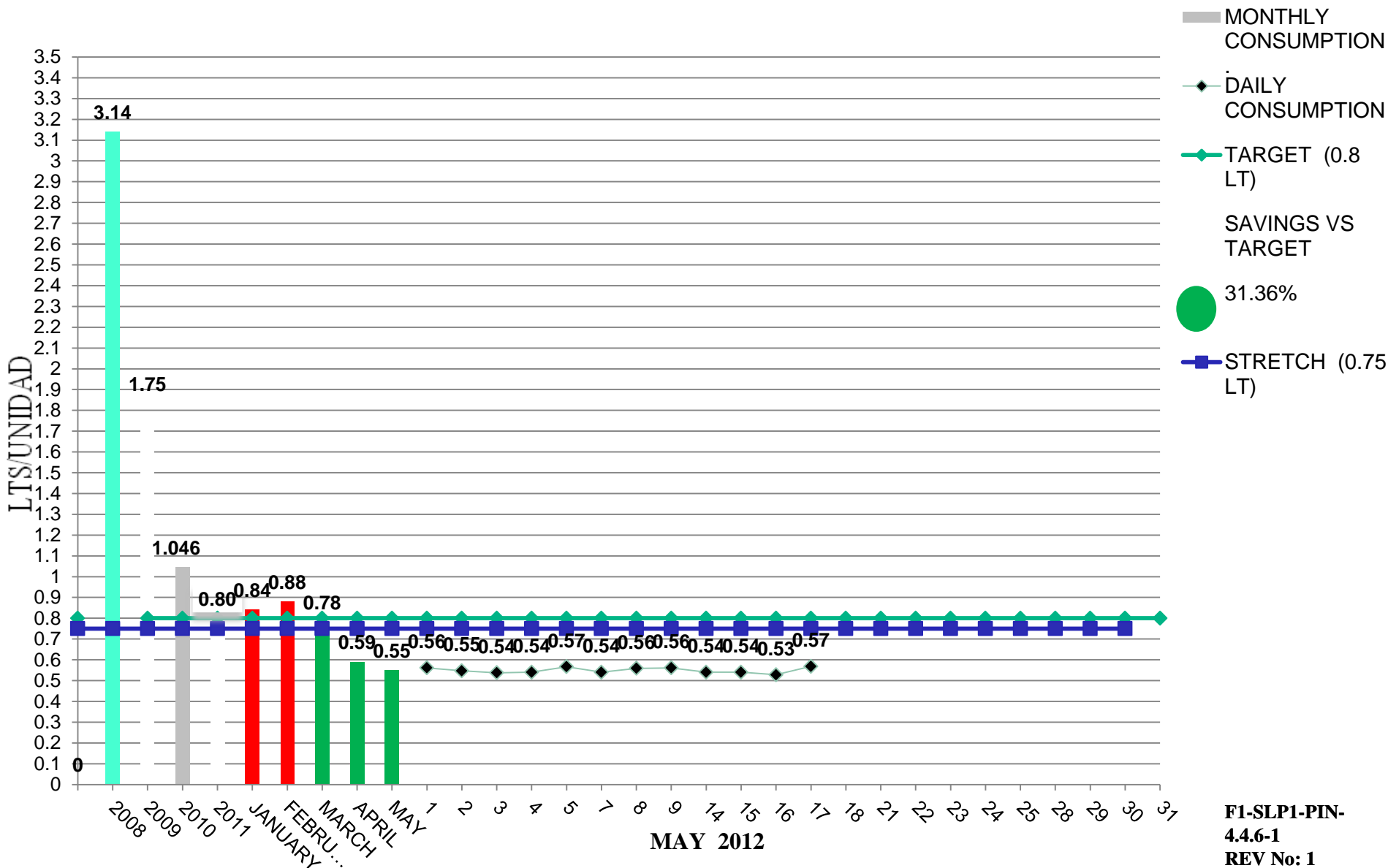


Project # 3: Reduce consumption of purge solvent

- Number one consumer in most painting operations
- Before: Reduced consumption of 3.14 liters / unit
- Next: 0.8 liters / unit (3 years)
- Total reduction of more than 70,000 liters per year



PURGE SOLVENT CONSUMPTION



31.36%

Projects to Reuse Chemical Products

- ❑ Project # 1: Reuse recovered refrigerant
 - Aluminum machining operation
 - Before: 6,500 to 7,500 liters per year of used refrigerant sent to water treatment
 - After: 6,500 – 7,500 liters recovered in the area of Chip Handling and reused



- ❑ Project # 2: Reuse honing oil recovered
 - Machining operations generate clouds of oil
 - Special equipment removes the clouds before they enter the atmosphere of the employees (mist collectors)
 - Before: 0 liters of honing oil recovered
 - After: 100-200 liters per month recovered and reused

Minimizing Inventory

Chemicals in pounds

