



**DATE:**

October 4, 2010 -  
October 6, 2010

**LOCATION:**

Brawley, California  
USA

**OBJECTIVE:**

MRA used to prevent  
materials from building up  
in haul truck beds and to  
reduce carryback



Global Barrier Coatings, Inc. personnel were on site at one of the largest gold mines in the United States from October 4-6, 2010 to perform a demonstration of the MRA™ product. The project is designed to demonstrate the effectiveness of the MRA product in preventing materials from building up in the trays of haul trucks.

Global Barrier Coatings, Inc. and the mining company initiated a trial demonstration to apply the MRA product to the trays of selected haulers. The success and effectiveness of the product has been measured as a function of increased throughput and reduced cycles.

The data from the Demonstration Project shows that use of the MRA™ slip coating product:

- Substantially reduced carryback in truck beds, thereby maximizing payload
- Eliminated overloading
- Reduced the number of cycles required per truck through maximizing haulage efficiency
- Maximized throughput by utilizing up to 99% of haulage potential
- Substantially reduced the time and frequency of cleaning the beds, thereby decreasing downtime and increasing availability
- Reduced wear on equipment, tires, etc. through fewer cycles
- Reduced potential for damage to truck beds and risk by cleaning with excavator

*It is important to note that the longer MRA™ product is in use, the better it performs. Extended usage allows the product to effectively penetrate the undercarriages surfaces, creating a longer lasting, non-stick surface. Product performance will increase over what was achieved in the demonstration project when in full scale, regular use.*



Information collected from the mine prior to the site visit indicates that the trays of the haul trucks can accumulate significant (10-15%) ore build-up (carryback) over a very short period of time (estimate < 4 x load/haul/dump cycles). Carryback is caused primarily by the high moisture content (approx. 20%) of the ore being hauled and is not weather related.

These conditions create carryback that;

- Reduces the efficiency of the trucks (unusable portion of the bed)
- Causes frequent overloading
- Requires additional truck cycles, resulting in increased wear on equipment, tires, etc.
- Increase the amount of time it takes to clean the mine haul trucks
- Increase the frequency of bed cleaning
- Increase the potential for damage to truck beds from cleaning using an excavator

Trucks before MRA with 10-15% carryback



MRA treated trucks after 12 hours on 1 spray

