



## Terra Systems Core Competencies Sustainable Remediation Program

Terra Systems, Inc. holds an industry and product leadership position in sustainable remediation.

1. We are one of the original founders of the Sustainable Remediation Forum (SURF) in November, 2006. SURF’s mission is to maximize the overall environmental, societal, and economic benefits from the site cleanup process by:
  - Advancing the science and application of sustainable remediation
  - Developing best practices
  - Exchanging professional knowledge
  - Providing education and outreach

Terra Systems has calculated the carbon footprint of its’ patented SRS® family of products and audited by an independent third party, Carbon Neutral. As part of this program, Terra Systems continues to identify methods, vendors, and raw materials that will contribute to lowering the final product’s carbon footprint. Examples are as follows:

- Reduce diesel fuel component of freight footprint by changing soybean oil suppliers, reducing/eliminating partial truck loads of raw materials in favor of full truck loads, and having raw materials shipped direct from manufacturing plants instead of through chemical distribution companies.
  - Replacing propane fueled lift truck with an electric lift truck.
  - Replacing manufacturing plant heating system with new more efficient system.
  - Replacing lighting system with a more efficient system.
  - Implementing a product container recycling program which includes in-house tote recycling equipment.
  - Development and implementation of a zero waste disposal program.
2. Terra Systems purchases carbon offsets for its’ product such that the product arrives at the job site with a zero carbon footprint.
  3. Terra Systems’ patented Family of SRS® emulsified vegetable oil substrates is certified

under the USDA Biopreferred Program as a 98% biobased product.

4. Terra Systems' has SRS® formulations optimized for maximum longevity based on site specific geology, geochemistry and hydrogeology such as SRS® -NR which has a theoretical hydrogen yield 150% greater than molasses and 300% greater than 60% sodium lactate. SRS® -NR is 100% comprised of food grade components and was recently used in the construction of long life Permeable Reactive Barriers (PRB) on Cape Cod, Massachusetts.
5. **Source locally:** We source our raw materials and other products from local sources where possible.
6. Recycling of totes and drums

Terra Systems will pickup and recycle drums or totes within 200 miles of our facility in Claymont, DE.

Distance of Site from 19703	Cost
<25 miles	Free
26 - 50 miles	\$250
51-100 miles	\$500
101 - 150 miles	\$750
151 - 200 miles	\$1,000

To discuss your remediation site call or email Michael Free at [mfree@terrasystems.net](mailto:mfree@terrasystems.net) or 484-889-2214.