Lawrence Anthony
EARTH ORGANIZATION
BECAUSE NONE SURVIVE ALONE

OIL SPILL RESPONSE SYSTEMS
THE NUMBERS & SCIENCE INDICATE A BETTER WAY FORWARD

NEW LAEO STUDY PRE-RELEASED FOR INDUSTRY RISK MANAGERS AND INSURERS

For the past few months we have been hard at work on a research project that will not only help the environment, but also insurers, industry members, government regulators and other stakeholders who want to improve the world's ability to clean up oil and chemical spills in our oceans and fresh water environments. The work has culminated in the completion of our ***Oil Spill Clean Up Methods - A Comparative Cost Analysis.*** Many of you have been following our Change Oil Spill Response Campaign, now in its 7th year. But for those not familiar with this issue, I will first share some background information.

How can we justify using a chemical pollutant to "clean up" a chemical pollutant? We can't. Or, how can we justify higher costs using less effective technology? We can't. To put it another way, how do we justify keeping a *Model-T* oil spill clean up system in place when a *Lamborghini or Ferrari* system is readily available? We can't. Yet, the *Model-T* has been the norm in addressing oil spills for nearly 4 decades. Government agencies and industry have been locked into using ineffective oil spill clean up methods and harmful agents such as chemical dispersants for too long now. The full story and documentation with *solutions* can be found in the research paper: *A Call for a Twenty-First Century Solution in Oil Spill Response* on our website at the *Environmental Solutions Hub* tab.

In alignment with our *Cooperative Ecology* philosophy, LAEO identifies and validates environmental solutions and teams up with innovative companies, scientists and individuals to implement best available technologies.

By way of example, our long-standing association and collaborative work with *Oil Spill Eater International (*OSEI Corporation*)* is changing the oil spill response paradigm globally. OSEI CEO Steven Pedigo – a brilliant scientist in this field, provided information for our analyst team so that we could compare his enzyme-based clean up agent, *Oil Spill Eater II,* with other conventional methods. Several of our staff and advisers then produced an objective and independent analysis using industry models and actual oil spill clean up events and data providing valuable insight into all available conventional options for addressing oil spills.

Now going into distribution, our ***Oil Spill Comparative Analysis*** will help make all interested parties aware not only of the environmental ramifications of using obsolete oil spill clean up methods but will quantify the enormous cost savings opportunity associated with utilizing the more eco-friendly system we advocate for—the *Enzymatic Bioremediation System* which detoxifies oil on contact and augments natural processes to reduce hydrocarbons to water and carbon dioxide within days.

The better system would be the one, which is cost effective and completely removes oil and hazardous chemical spills from our oceans and other environments. OSE II is that system.

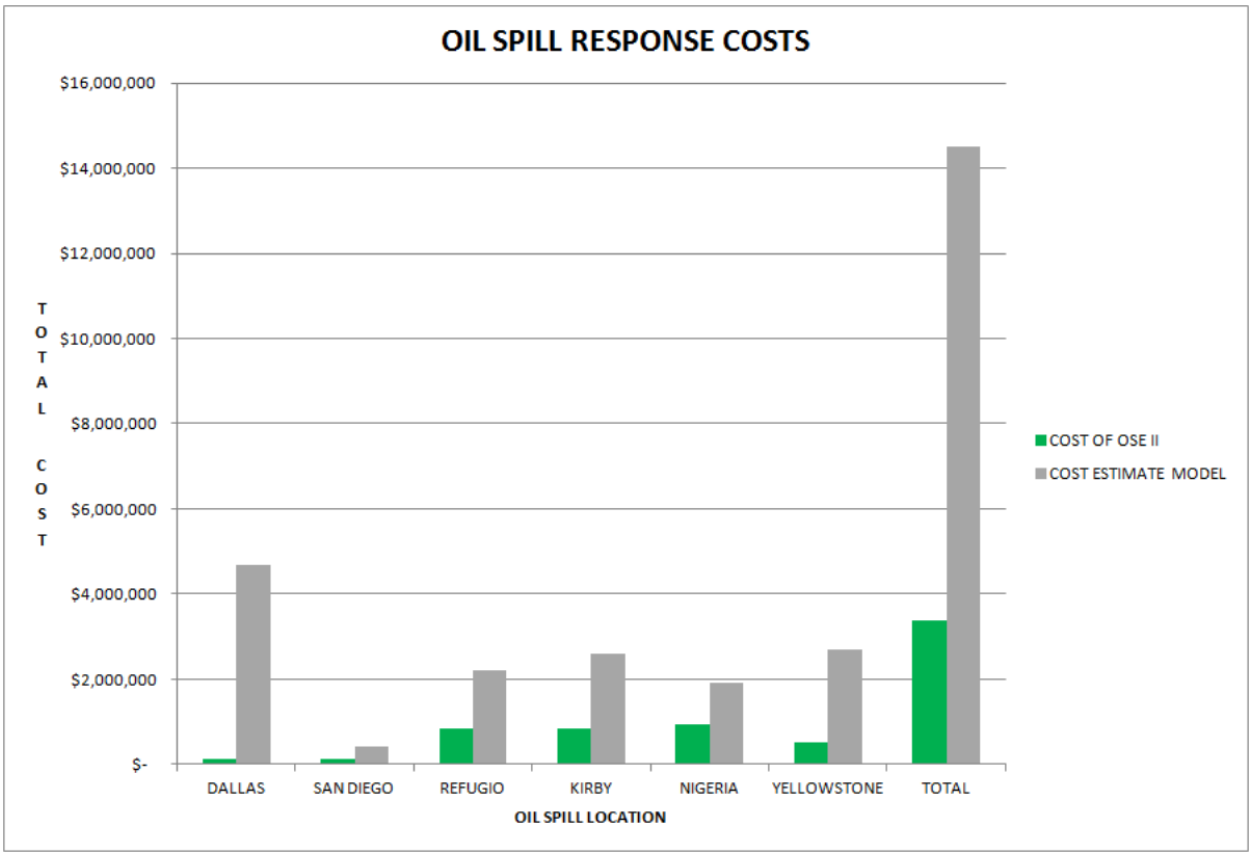

Chart: The grand total for the clean up of these 6 major oil spills would have been 77 percent less costly using OSE II method.

Our ability to live on Earth and most of the world's economy is based on the breathable air, drinkable water and agricultural bounty which nature provides and shaped by humans to our use. The Enzymatic Bioremediation System is based on these same principles; using nature's tools to our advantage. It is inherently easier to work with nature than against it.

Think of it this way, a chemist that enforces the merging of clashing incompatible molecules to make a synthetic chemical is tampering with natural laws. Why not apply *Cooperative Ecology*-based chemistry and align chemical products with natural laws when developing industrial processes? OSE II is a good example of that. Seems too simple and obvious? Our analysis may help persuade all stakeholders that there is a better way forward—a natural approach that enhances their *bottom lines*.

Analysis Methodology: Within our analysis is a cost comparison that evaluates remediation options for six recent major oil spills. For each spill, we built the cost from the ground up for the environmentally safe Enzymatic Bioremediation System *Oil Spill Eater II (OSEII)* and compared that figure against the costs incurred for the actual response methods employed. We then ran one additional comparison by leveraging a costing model prepared by a third party organization *Environmental Research Consulting*. After running the analysis, the findings were unequivocal. For each spill evaluated, OSEII was the low cost option both in total and on a per gallon basis when considering actual volumes remediated. By presenting this comparison to insurers and other parties with sizable stakes in the fossil fuel industry, we hope to change the status quo by pointing out the clear financial and environmental benefits that can be derived by utilizing a reliable enzymatic solution to address future spills.

If you are interested in receiving a copy of our complete analysis and report, please write LAEO's Science and Technology Coordinator at: info@theearthorganization.org to request your copy.

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