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## **OSEI Corporation's Product Introduction**

### **Oil Spill Eater II ( OSE II )**

Oil Spill Eater II, (OSE II) has been in operation since 1989, the Oil Spill Eater International (OSEI) Corporation and its product Oil Spill Eater II (OSE II) has been used on over **56,000 clean up spills/projects**, and is considered the worlds largest first and only bioremediation spill response product.

OSE II is used by the largest oil field services companies in the US and globally. OSE II is used to remediate oil drilling fluids, oil based drilling mud, in oil waste pits for cuttings and drilling mud, for Rigs on and offshore, inside of revetments, for rig wash, for soil spills as well as fresh and ocean water spills of hydrocarbons, crude, fuels, drilling fluids and **Guar**.

OSE II is used for field service companies field offices, Fleet vehicle cleaning operations that create hydrocarbon waste, storage tanks, floors, concrete, well head spills, transfer spills, test pits, and mechanical failure spills. OSE II will keep your operations clean and absolutely save money time, and labor associated with oil field services.

OSE II reduces cost from chemical cleaning cost, since OSE II will be less expensive, and will not create wastes from caustic, and hazardous chemicals, reducing waste streams, and OSE II reduces costs associated with shut down times, since in most cases shut downs will not be required, and finally OSE II will not have a deleterious effect on equipment, and will not destroy rubber hoses, and cause metal to fatigue and deteriorate, **OSE II absolutely reduces OPEX.**

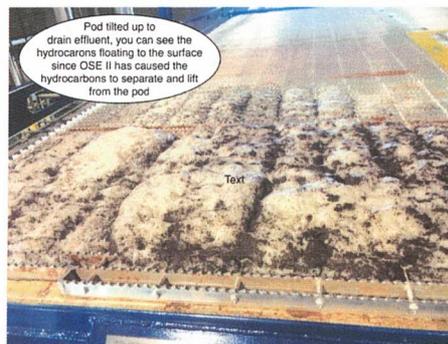
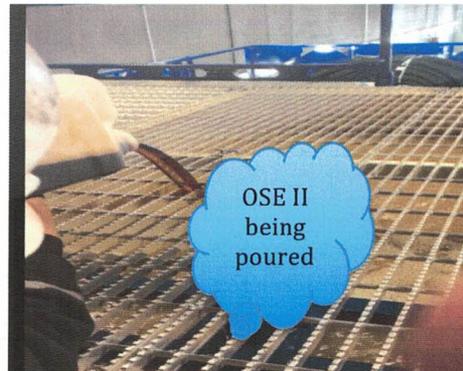
These are areas OSE II is used by one of the worlds largest oil field services company as well

### I. PCM - Gel Blenders, Gel Hydration Blenders



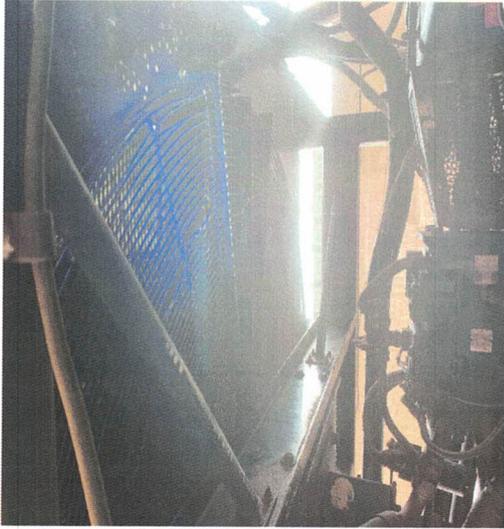
Oil Spill Eater II is poured into the top of the blender, and once OSE II has circulated for a short time the blender is drained directly into floor drains in the shop. The drain is also kept clean with the OSE II in the effluent from the blender as well

### II. Super Pods - Vortex Blenders adds Sand to the Fracking Gel



OSE II is poured through the grid on top of the Super Pod to separate hydrocarbons and fluids from the truck lifting them to the surface cleaning the truck. The effluent is drained into the floor drains where it flows to 20,000 gallon receiving tanks. OSE II cleans the trucks and the associated equipment better without any caustic or hazardous chemicals, reducing harmful exposure to employees, while OSE II does not adversely effect trucks and equipment the way caustic or hazardous chemicals can, and OSE II performs a better job of cleaning while reducing the clean ups environmental impact.

### III. Process Trailers - Electric Equipment, Coolers



Fans and coolers end up getting covered in dust, then oil mist finds its way to adhere to the dust, which then sticks to fans and bearings, once the oil coated dust works into bearings the coolers have to be shut down and the bearings replaced.



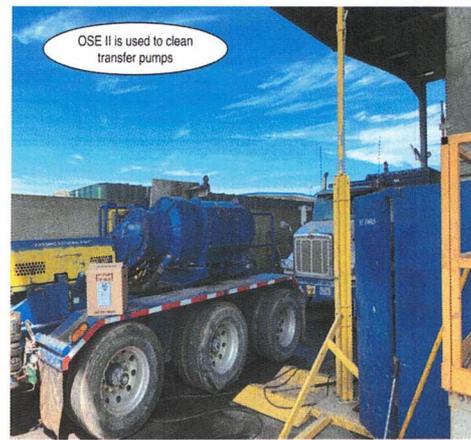
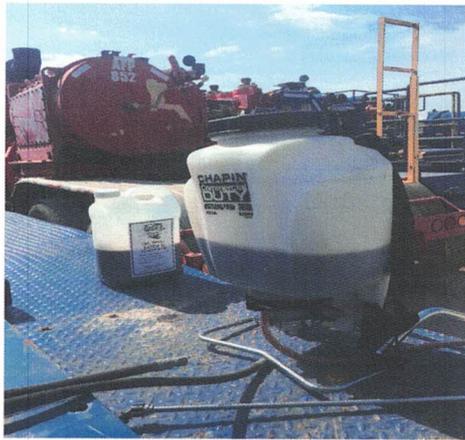
OSE II is applied to the coolers fans and equipment, which prevents a build up of dust coated oil, which prevents this dust covered oil from creating failures with the equipment, eliminating shut downs in the middle of processing! This saves time and money!

#### IV. Cement Pumps – Pumps down Casings



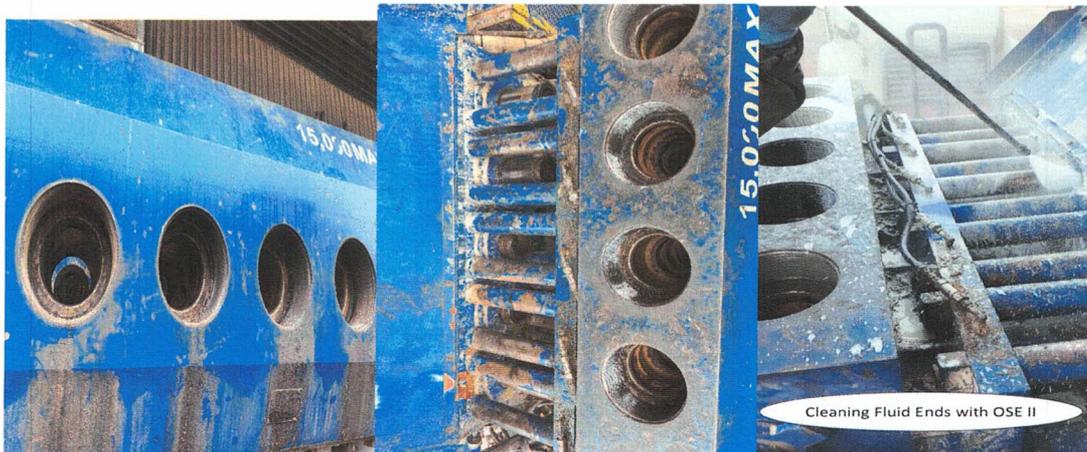
OSE II performs a better job of cleaning trucks and equipment eliminating the need for caustic, and or hazardous chemical agents protecting employees, and reducing the environmental impact of the effluent cleaned from trucks and equipment

#### V. Transfer Trailers – C pumps to move the water

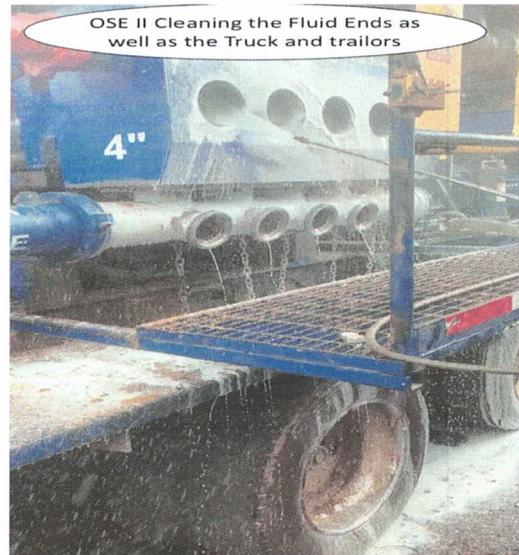
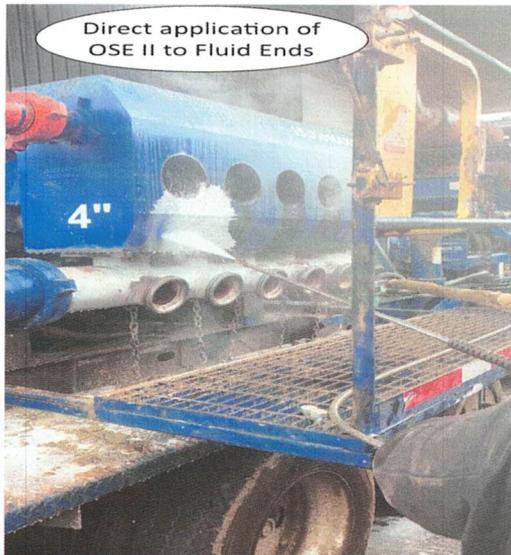


OSE II cleans trucks and equipment less expensively than caustic or hazardous chemicals, while protecting employees and equipment

#### VI. OSE II Would help clean the Fluid Ends on Frack pumps, and Clean Packing Bores on Frack pumps in-between stages

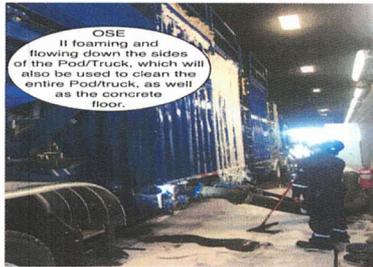
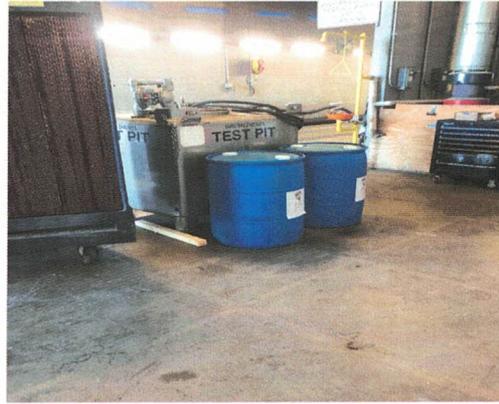
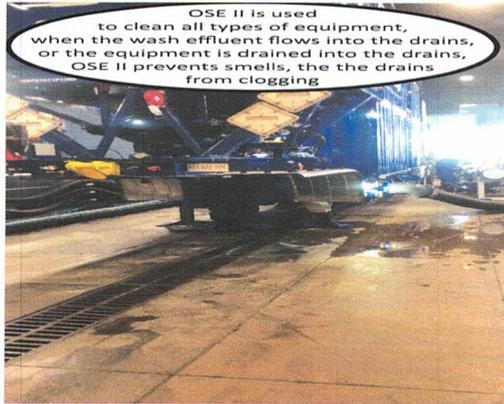


**Fluid ends are especially difficult to clean up, OSE II makes this an easy process, without using caustic or hazardous chemicals, protecting the equipment extending its life while protecting employees as well. OSE II is more economical as well.**



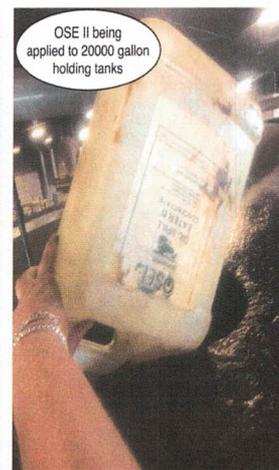
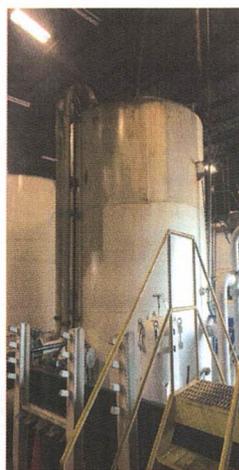
**OSE II makes easy work of cleaning fluid ends, when full equipment is not required, OSE II can be applied to the threads and wiped out with a rag leaving extremely clean threads, reducing costly aerosols, and hazardous fluids.**

## VII. OSE II – Also helps keep Equipment clean and the work area clean



**OSE II staged in drums and cases at a major oil field service companies field office for cleaning of pods/trucks equipment tanks, floors, drains revetment and for soil and concrete spills**

**VIII. OSE II is used to keep contaminated water remediated so it can be reused, eliminating contaminated water haul off, which generally requires shop shut downs as well, the money and time saved is extreme!**



**The first picture is showing the wash down effluent with OSE II in it, from use on equipment, and equipment drained into drains, is being extracted from drains, and pumped into the 20,000 holding tanks.**

## IX. Cleaning the Field Service company yard, where equipment is stored on Soil



**Truck fuel tank leaked Diesel**



**OSE II was brought to the site to be applied**



**The diesel was visible after a short rain**



**OSE II was applied to the spill**



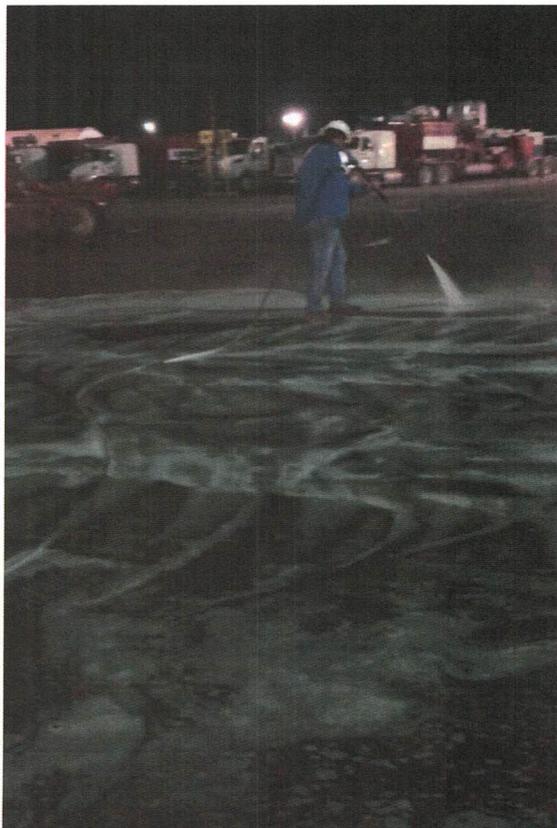
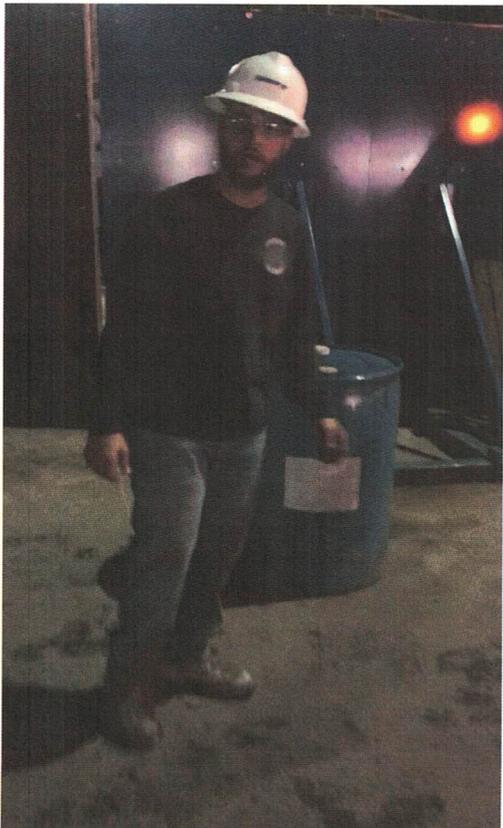
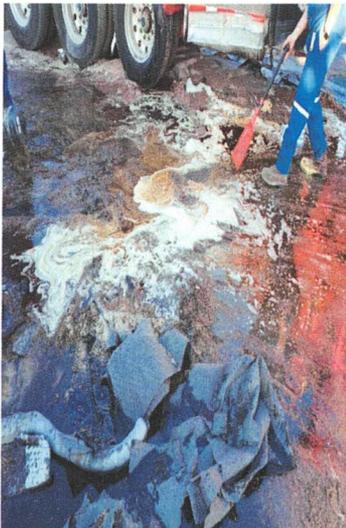
**OSE II applied to the entire spill area**



**Water was added to keep the soil moist**

**The site was now free of hydrocarbons, the smell was gone and when the water evaporated there was no visible signs of fuel.**

**X. Cleaning the Field Service company yard, where equipment is stored on Concrete.**





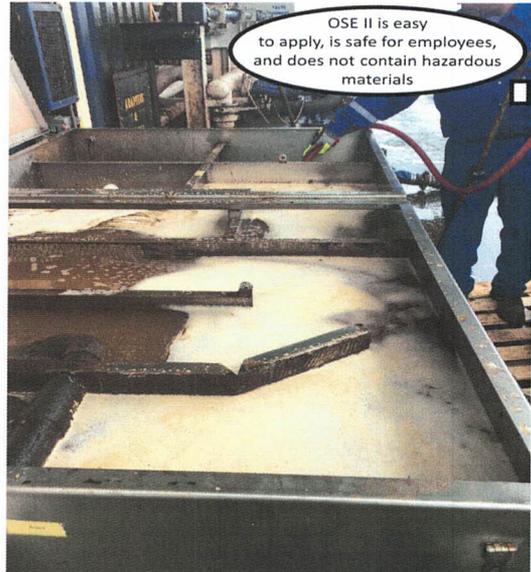
**This large concrete spill with gearbox oil, required 2 hours of applying OSE II, then 1 hour of rinse down, and the entire surface was free of gearbox oil, and since OSE II lifts oil/hydrocarbons out of the pores of the concrete the surface was no longer slippery as well. The effluent wash off will become CO2 and water, the environmental impact was reduced on contact with OSE II.**

## **XI. Oil Water Separators**





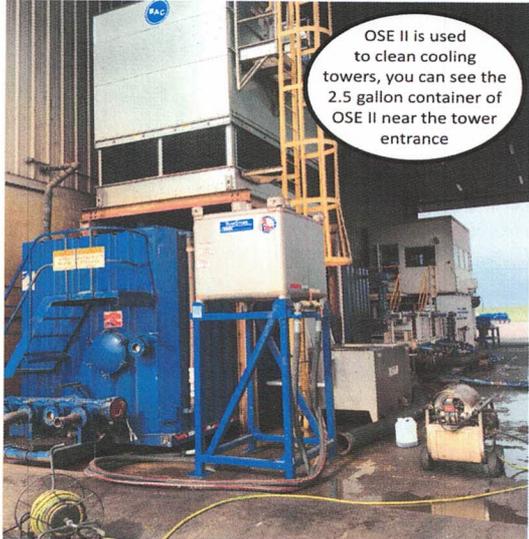
Spencer Smith of the OSEI Corporation applying OSE II, to the oil water separator through the red hose



OSE II is easy to apply, is safe for employees, and does not contain hazardous materials

**OSE II remediates the effluent in the oil water separator, and cleans the weirs, helping separate hydrocarbons from water. OSE II will also clean out any pipes in the separator or outflows from the separator as well.**

**XII. Cooling Tower, and Water storage Pod/Tanks**



OSE II is used to clean cooling towers, you can see the 2.5 gallon container of OSE II near the tower entrance



OSEI associate Spencer Smith pouring OSE II directly into a pd/tank to remediate waste water effluent, hydrocarbons, drilling fluids, and fracking fluids

**Where ever hydrocarbons, drilling fluids, fracking fluids, are handled spilled, or utilized, the OSEI Corporation can engineer a process to remediate these and reduce operations costs.**

***OSE II is a non-toxic first response solution (only response necessary) to oil spills on land, water, sea, subsea, marshes, beaches, and estuarine environments, as well as for storage tanks and confined spaces, and is the only enzymatic additive in the world for remediation of carbon, or hydrocarbons, or hydrocarbon based material.***

- OSE II is a tried and tried product.

***OSE II has cleaned up over 56,000 oil spills over the past quarter century and can provide substantial documentation of formal testing by the EPA, DOI, LSU, and numerous independent and well-respected research facilities proving its effectiveness, with peer review of the testing carried out on OSE II.***

- OSE II creates **no bad side effects** or “trade offs”.
- OSE II **contains no toxic materials**.
- OSE II rapidly **eliminates** the adhesion properties and toxicity in the oil as well as the fire hazard, and causes the detoxified oil to float on water or to lift to the surface of soil, OSE II prevents hydrocarbons from leaching downward into soil, or contaminating the water column for water spills.
- OSE II **does not cause oil to sink** into the sediment. **It causes the oil to rise, to the surface.** However, even though it causes hydrocarbons to float, it breaks it down so rapidly that it is very difficult to see until it is completely gone within a matter of a few days to a few weeks depending on the amount of oil spilled.
- OSE II in seconds eliminates the impact of most hydrocarbons, to the environment, protecting natural resources, as well as humans, plants and animals.
- OSE II also eliminates the flammability of solvents and fuels, you merely apply OSE II based on our instructions and generally in 3 to 5 minutes you cannot light the fuel or solvent.

OSE II helps entry into confined spaces safe in a short time as well.

The US EPA has only **ONE product** that is classified as **Biological Enzyme Additive** (EA) based – Oil Spill Eater II (OSE II).

**OSE II is safe for employees**, see link to OSHA letter stating OSE II is safe for humans at [http://www.osei.us/tech-library-pdfs/2011/9-OSEI%20Manual\\_OSHA.pdf](http://www.osei.us/tech-library-pdfs/2011/9-OSEI%20Manual_OSHA.pdf)

See the OSEI Safety Data Sheet or SDS at link [http://www.osei.us/wp-content/uploads/BOSEI\\_US\\_MSDS-\\_updated\\_4-7-2016-1.pdf](http://www.osei.us/wp-content/uploads/BOSEI_US_MSDS-_updated_4-7-2016-1.pdf)

**The US military procures OSE II through the rules of sole source**, which means they do not set forth bidding or tenders for OSE II, because OSE II is a one of a kind product, that no one else can make. The US Military has been procuring OSE II for all 5 branches of the US military under the rules of sole source since 1992, see link <http://www.osei.us/wp-content/uploads/OSEI-Corp-Defense-Logistics-letter1.pdf>

**27 second Short demonstration video for oil spill response on water** <https://www.youtube.com/watch?v=7UdhBKUCkhE>

Rig Wash links <https://www.youtube.com/watch?v=pqdIN1q6jKI> and <https://www.youtube.com/watch?v=sDX2Fao6Rw4> to see how OSE II is used on oil rigs.

**short open water and shoreline video in Dubai**  
<https://www.youtube.com/watch?v=dCGa5B3GR-4>

**Oil Spill clean up with OSE II off of an offshore oil rig**  
<https://www.youtube.com/watch?v=CdrY6f3ZzF0>

Soil Clean Ups for Shell Oil, <http://www.osei.us/photoalbums/soil-cleanup>

Soil Clean Up Dallas Texas <http://www.osei.us/archives/2091>

Soil Clean Up Dorchester Texas <http://www.osei.us/archives/1674>

Drilling Mud clean up <https://www.youtube.com/watch?v=PnZM3AYNSdI>

Process water <http://www.osei.us/photoalbums/sommerset-refinery>

**Saudia Arabia demonstration on water and shoreline**

<https://www.youtube.com/watch?v=Jnnc72xAU44>

**35 toxicity tests from 9 different countries including the US EPA**

<http://www.osei.us/wp-content/uploads/35-toxicity-tests.pdf>

**There are hundreds of more videos on our web site click on clean ups on the menu located on the left side of the web site at [www.osei.us](http://www.osei.us), if you require more information, or if there are any further questions let us know. Call today or email OSEI for a demonstration!**

**Spencer Smith**