



Cemcor Environmental Services

“Offering you the finest environmental contracting services, products & remedial technologies available”

CES was formed in 2001 to identify companies that can provide viable & reliable remedial options & services to support the activities of the environmental consulting and engineering companies that require these types of support services & technologies

With over 25 Years' Experience in the Environmental Remediation Field, we are constantly searching and identifying the types of cutting edge technologies and contracting services you can rely on to service you and your client's needs.

Present companies represented are:



All technologies offered have been proven to be effective and all contractors have been vetted to insure they are professional, cost effective and that their Health & Safety Records are among the best in the industry. The CES Family of Companies has completed projects all over the US; however our target concentration is primarily the Great Lakes Region.

Site Evaluations for the various technologies and proposed contracting services with the associated pricing is handled strictly by the professionals of each respective company. This allows you to deal directly with those that have the expertise in each of their respective fields. In many cases, there may be a couple or several options for your particular site, in which case CES can direct your site information to the proper company for evaluation and pricing of their particular technology or service for your review. The following are a brief synopsis of each of the companies we represent services and technologies offered.

For more detailed information or to speak to one of the company professionals, contact me at:



Cemcor Environmental Services

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Catskill Remedial Contracting Services

(Professional Contracting Services Specializing in Underground “Yellow Iron” Work, Landfill Construction and Remediation Related Activities, office located in Otsego, MI)

- **Landfill Capabilities (over 230 LF projects since company inception)**
 - Cell & Cap construction
 - Flare installation
 - Methane/Leachate collection
 - Waste excavation & relocation
- **Below Grade Trenching & Piping Remediation System Installation**
- **Hazardous/Non Hazardous soil excavation**
- **Site Restoration**
- **MGP Site Clean up**
- **Lagoon Closures**
- **Pipeline Related Earthwork**
- **Permeable Barrier Wall Installation**
- **Soil Mixing in combination with chemical application**
- **Brownfields & Wetlands Redevelopment**
- **Superfund Clean Up**
- **Dewatering**
- **Rapid Response Remediation**
- **iNET approved**



Chemviron Midwest

(Remediation Equipment & Contracting Specialists with offices in Ohio, Michigan & NW Indiana)

- **Pilot Tests Utilizing our own Pilot Units**
- **Construction of ‘Made to Order’ Full-Scale Remediation Systems**
- **Rental/Lease of Remediation Systems**
- **Telemetry Programming**
- **Used Remediation Equipment Management**
- **Carbon Change Outs**
- **O&M Support Activities**
- **Drum Handling, Removal & Disposal**
- **Dewatering Activities**
- **Hazardous & Non Hazardous Vacuum Trucks**
- **Storm Water reporting, management and support services**
- **LNAPL Recovery and SWI (CO₂) Injections to enhance LNAPL Recovery**
- **Solar Powered Water Purification (Red Bird) Manufacturer**
- **Vapor Intrusion Mitigation Equipment, Vapor Barriers including installation of both services**



ORIN Remediation Technologies

(A full service chemical injection & waste water treatment contractor with expertise in the utilization of a wide variety of chemistries used to effectively remediate a wide spectrum of contaminants)

- In-House Treatability Laboratory
 - GC-VOC's – ICP - UV/Vis Spectroscopy
- In-Situ & Ex-Situ Remediation
 - Chemical Oxidation
 - Reductive Dechlorination
 - Biological Reductive Dechlorination/Zero Valent & Emulsified Zero Valent Iron (ZVI or EZVI)
 - Soybean Based Technologies
 - Metals Treatment
 - Phosphate chemistries/EnviroBlend®/Redox chemistries
 - Bioremediation using a variety, and sometimes a combination of, the most efficient chemistries
 - Free Product Removal utilizing a combination of both chemical injection and mechanical extraction
 - Waste Water Treatment
 - Performance Enhancement/Odor Control/ Recalcitrant Organics/ Dye Removal

ORIN has successfully treated sites contaminated with petroleum hydrocarbons, chlorinated solvents, creosote, coal tars, pesticides, explosives, heavy metals and fuel oil.



In-Situ Gas Powered Thermal Remediation & Advanced Off-Gas Treatment

- Gas-Powered Thermal Treatment for affordable & rapid remediation of Most Contaminants
- In-situ and ex-situ thermal applications
- No expensive electrical drops or additions
- Treats all VOCs and SVOCs plus mercury
- Can reach higher temperatures than electrical resistance heating
- Can be scaled to any size project - large or small
- Can achieve MCLs for site closure, or less stringent goals
- Efficient in most lithologies, including tight soils such as clay, silts, fractured bedrock
- Performance based and time based guarantees available
- Uses natural gas (if available), propane or liquid fuels for subsurface heating
- No waiting for onsite utility upgrades
- Hydrocarbons vapors extracted from subsurface and used as supplemental fuel*

*Off-gas treatment using C3 Technology harnesses a combination of compression, cooling and condensation processes to efficiently recover volatile organic compounds (VOCs) from the off-gas vapor stream of soil vapor extraction (SVE) dual phase extraction (DPE) and in-situ thermal remediation (ISTR) systems. Off-gas contaminants are recovered as a non-aqueous phase liquid (NAPL) that may be recycled or disposed of offsite. Generally, greater than 99.9% of the VOCs are recovered from the vapor stream. C3 Technology is routinely used with ISTR to offer a fully-integrated technology platform value proposition.



Heavy Metals Stabilization

EnviroBlend® is:

A Family of patented treatment chemicals offering Site Tailored Blends

Magnesia-based - Non-Magnesia-based

“Super” Mag – not ‘street’ MgO

Renders metal-bearing wastes non-hazardous - Forms insoluble metal-compounds - Provides pH buffer

Stabilization of a wide range of heavy metals

- Arsenic
- Antimony
- Barium
- Cadmium
- Chromium
- Copper
- Lead
- Nickel
- Selenium
- Silver
- Zinc

Other Applications

- Groundwater
- Mechanical soil stabilization
- Odor control
- Acid gas emissions, such as SO₂ and HCL
- Radionuclide



Family	Product	Advantage	Application
Electron Donors	EOS Pro	Proven formula of emulsified vegetable oil with nutrients and vitamin B12, optimized to enhance microbial growth and distribution in heterogeneous geology	Chlorinated solvents, Cr ⁶⁺ , NO ₃ and other recalcitrant compounds at sites with a variety of hydrogeological and biochemical characteristics
	EOS XR	Extended release, three stage formula increases the substrate's life by 2 to 4 times of normal emulsified oils to address matrix diffusion from low K zones	Sites with distinct interbedded geology of sands and clay, limit the reinjection frequency
	EOS 100	Water-mixable high retention oil with extremely long shelf life, shipped as a concentrated waterless oil substrate	Fractured bedrock, long term biobarriers (permeable reactive barriers) and high velocity aquifers
	EOS QR	Quick release, salt free soluble substrate	Precondition aquifers before using an emulsified oil or use as a stand-alone short-term substrate
	EOS VOS	Emulsified vegetable oil specially formulated for injection and retention in the vadose zone	Eliminate continued groundwater contamination by downward migrating chlorinated solvents in the vadose zone
	Custom	Don't see a product that fits your site characteristics? EOS Remediation, LLC can provide customized formulations to meet the challenges of your specific project Contact us to find out more	
pH Control	CoBupH-Mg	Safe, easy-to-use, long-lasting colloidal buffer, can be mixed with any EOS® emulsified oil product or used alone	pH control and adjustment of aquifers for enhanced bioremediation and metals stability
Electron Acceptors	EOx	Granular powder of calcium peroxide to provide a steady, long-term supply of oxygen	Biodegradation of complex petroleum or non-chlorinated hydrocarbon contaminants, MGP sites and PAHs
	EAS®	Mixed nutrient infused sulfate salts, provided as a dry powder or pre-mixed solution	Gasoline range contaminants where groundwater is already anaerobic
Bioaugmentation	BAC-9	Microbial consortium of <i>Dehalococcoides mccartyi</i> at 10 ¹¹ cells/L, and other dechlorinating organisms enriched to degrade a variety of chlorinated solvents and other compounds.	Address <i>cis</i> -DCE or vinyl chloride "stall" from a lack of insufficient microbial population, can also degrade 1,1,1-TCA, 1,1,2-TCA, Freon 113 and carbon tetrachloride

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