



Range of Treatable Contaminants Guide



Range of Treatable Contaminants

REGENESIS products have been used to effectively treat a broad range of groundwater contaminants from petroleum hydrocarbons, to chlorinated solvents, pesticides, and metals. Contact us to discuss the treatability of your contaminant of concern and site details so that we can recommend the most effective REGENESIS solution.

✔ Contaminant treatable with REGENESIS Products

| Range of Treatable Contaminants | LAC | | ISCO | | | Aerobic Bio | Anaerobic Bio | | | | ISCR | | |
|--|------------|-----------|----------|--------------|------------|---------------|---------------|------|--------|----------|------|----------|-----------|
| | PlumeStop® | PetroFix® | RegenOx® | PetroCleanze | PersulfOx® | ORC® Advanced | 3DME® | HRC® | HRC-X® | BDI®Plus | CRS® | AquaZVI™ | MicroZVI™ |
| BTEX | | | | | | | | | | | | | |
| Benzene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Toluene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Ethylbenzene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Xylene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Petroleum Hydrocarbons | | | | | | | | | | | | | |
| Gasoline Range Organics (GRO) (C ₆ -C ₁₀₋₁₂) | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Diesel Range Organics (DRO) (C ₉₋₁₂ -C ₂₄₋₂₆) | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Oil Range Organics (ORO) (C ₂₂₋₃₂) | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Creosote (coal tar) | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Oxygenates | | | | | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Tert-butyl alcohol (TBA) | | | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Chlorinated Solvents | | | | | | | | | | | | | |
| Tetrachloroethylene (PCE) | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Trichloroethene (TCE) | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Dichloroethene (DCE) | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Vinyl chloride (VC) | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Tetrachloroethane | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Trichloroethane (TCA) | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Dichloroethane (DCA) | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Carbon tetrachloride | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Chloroethane | | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Chloroform | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Chloromethane | | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Chlorotoluene | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Methylene chloride | | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Dichloropropane | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Dichloropropene | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Hexachlorobutadiene | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Trichloropropane | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Bis(2-chloroethyl)ether | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Bis(2-chloroethoxy)methane | ✔ | | ✔ | ✔ | ✔ | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| PAHs | | | | | | | | | | | | | |
| Acenaphthene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Acenaphthylene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Anthracene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Benzo(a)anthracene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Benzo(a)pyrene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Benzo(b)fluoranthene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Benzo(ghi)perylene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Chrysene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Dibenzo(a,h)anthracene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Fluorene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Naphthalene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Phenanthrene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Pyrene | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| Aromatics | | | | | | | | | | | | | |
| 2-chlorophenol | ✔ | | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| 2,4-dichlorophenol | ✔ | | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| 2,4-dinitrophenol | ✔ | | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| 4-chloro-3-methyl phenol | ✔ | | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| 4-iso-propyltoluene | ✔ | | ✔ | ✔ | ✔ | ✔ | | | | | | | |
| 4-nitrophenol | ✔ | | ✔ | ✔ | ✔ | ✔ | | | | | | | |

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| | PlumeStop® | PetroFix® | RegenOx® | PetroCleanze | PersulfOx® | ORC® Advanced | 3DME® | HRC® | HRC-X® | BDI®Plus | CRS® | AquaZVI™ | MicroZVI™ |
| Aromatics (continued) | | | | | | | | | | | | | |
| Chlorobenzene | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Dichlorobenzene | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| N-butylbenzene | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Nitrobenzene | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Pentachlorophenol | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Phenol | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Propylbenzene | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Styrene | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Trichlorobenzene | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Trimethylbenzene | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Haloalkanes | | | | | | | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Trichlorofluoromethane (Freon 11) | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Trichlorofluoroethane (Freon 113) | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Pesticides and Herbicides | | | | | | | | | | | | | |
| Chlordane | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Heptachlor Epoxide | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Lindane (hexachlorocyclohexane) | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| DDT, DDD, DDE | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Toxaphene | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Dieldrin | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| 2,4-D | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| 2,4,5-T | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Endrin | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Energetics | | | | | | | | | | | | | |
| TNT | ✓ | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| DNT | ✓ | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Nitroglycerine | ✓ | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| HMX | ✓ | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| RDX | ✓ | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Miscellaneous | | | | | | | | | | | | | |
| Acetone | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| 4-methyl-2-pentanone | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Perchlorate | | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Polychlorinated biphenyls (PCBs) | ✓ | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Nitrates | | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Carbon Disulfide (CS2) | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | | | |
| 1,4-dioxane | | | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | | | |
| Chromium (VI) | | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |

For additional questions or for a site review please call 949.366.8000

Results will depend on specific site conditions, please discuss your site with a REGENESIS Technical Manager to determine which technology is most optimal for your site. The information provided is for guidance only. It is recommended that a pilot test or treatability study be performed to verify applicability to your specific contaminant and site conditions. REGENESIS makes no warranty or representation, expressed or inferred, and nothing herein should be construed as to guaranteeing actual results in field use, or permission or recommendation to infringe any patent.

TECHNOLOGY-BASED SOLUTIONS FOR SOIL AND GROUNDWATER REMEDIATION

REGENESIS® products and services have been used on over 25,000 projects worldwide. With visibility on 1,000's of projects annually, REGENESIS has exposure to a wide spectrum of sites.

Trust REGENESIS to be your remediation resource for your next project.

