



Comprehensive Solutions for Environmental Site Remediation, Dewatering & Landfill

Cost-effective treatment systems – engineered and built for the toughest water challenges in the most sensitive ecosystems.



Comprehensive Solutions for Remediation

Vacuum Extraction

Newterra has decades of experience offering customized solutions for vacuum extraction of water, air and product from wells. Our low maintenance, operator-friendly systems offer a wide range of options for inlet headers, air flow meters, process valves, piping, fittings, and filters – and are available skid mounted or enclosed.

Multiphase & Dual Phase Extraction

- Rotary lobe, rotary claw and liquid ring vacuum pump packages
- Safe, efficient high-vacuum recovery of volatile organic contaminants (VOCs), water and free product from soil and groundwater

Soil Vapor Extraction

- Custom designed packages for recovery of VOCs from soil and groundwater
- Utilize regenerative, rotary lobe and rotary claw technologies

Air Sparging Packages

- Available for any flow and pressure requirement
- Specialize in rotary claw compressors for 5-30 psi requirements, and rotary screw compressors for 30+ psi

Air Cooled Heat Exchangers

- Air cooling solutions for vapor streams prior to carbon treatment
- Systems based on detailed modeling to ensure process success



Certified Production Facility

Newterra has dedicated production facilities in **Canada**, the **United States** and **Germany**. Our primary 175,000 sq. ft. plant incorporates a strategic process flow based on Lean Manufacturing tools.

MET Certified: The MET Laboratories designation allows **Newterra** to build pre-approved full systems to Canadian and US electrical standards for both hazardous and general purpose ratings.

Skilled Trades: Full-time licensed electricians, millwrights, plumbers, pipefitters and carpenters are part of our Production Team.





Comprehensive Solutions for Remediation

Water Treatment

Newterra offers a wide range of technologies to address the treatment and remediation of groundwater and other water sources. Our solutions include:

- **Tanks** for inlet settling, equalization, and batch processing
- **Oil/Water Separators** featuring full modeling results
- **Air Strippers**. We're an approved distributor and system integrator for QED
- **Particulate Filters** including bag, cartridge, self-indexing and sand filters
- **Carbon & Specialty Media Filters** including virgin and regenerated water phase carbon, TM100 clay and alumina

Air Treatment

At **Newterra**, we have extensive experience treating contaminated vapor streams at varying flow rates and contaminant concentrations.

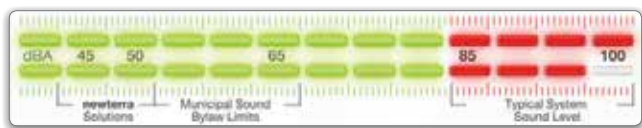
- **Carbon Vessels** from small disposable DIS series to large, carbon-steel VPC series vessels with a wide range of operating pressures and flow rates
- **Thermal & Catalytic Oxidizers**
- **Gas Scrubbers** with catalytic oxidizers for chlorinated hydrocarbon sites with concentrations exceeding vapor phase carbon capabilities





Bringing Innovation to the Market

Lowering the Volume of Remediation



Eliminating the Threat of Sound Violations

Newterra is a pioneer in developing sound attenuated solutions that comply with stringent local sound bylaws. Our innovative systems eliminate the threat of a shutdown due to sound violations.

Newterra offers remediation solutions featuring our sound abatement technology for new build systems, as well as field retrofits to existing systems that are in non-compliance.



After noise complaints from nearby residents shut down the remediation of a former service station site in California, **Newterra** was called in to create a low noise system to eliminate subsurface soil and groundwater contamination consisting of free product gasoline, BTEX and other compounds.

Cost-Effective Iron Removal

The presence of iron in groundwater can pose significant design, operational and cost implications to remediation processes, such as frequent backwashing and media filter replacement. After contact with oxygen, the precipitate can plug equipment, piping and sewer lines. **Newterra's** efficient, cost-effective Iron Removal technology addresses those challenges by providing:

- High levels of iron removal
- Chemical-free iron oxidation
- Reduced backwash water requirements
- Higher backwash iron concentrations
- A compact footprint
- Low operating & maintenance costs



Backflush Iron Concentrations



Pre-Treatment
(Iron >100 PPM)



Post Treatment
(Iron = 0 PPM)



Dewatering & Leachate Solutions

Modular Dewatering & Treatment Equipment

Newterra offers pre-built, fully assembled dewatering equipment that's packaged for easy shipping and fast set-up at your construction site. Our modular systems provide cost-effective, automated water treatment and filtration to address TSS removal, pH adjustment and sludge monitoring/removal for volumes up to 2500 GPM. We can also engineer and manufacture specialized systems to treat more complex compounds.



Newterra's LongBox® Series Clarifiers provide excellent removal efficiencies compared to traditional weir tanks and settling or frac tanks commonly used for sediment treatment.

Landfill Leachate Treatment Solutions

With the increasing costs of hauling or pumping leachate to publicly owned treatment facilities, more landfill operations are turning to on-site treatment. **Newterra** offers custom solutions to address the specific treatment needs of landfill sites – from reducing concentrations of ammonia and organic compounds to removing heavy metals. Our leachate treatment systems eliminate hauling costs and facilitate compliant discharge.

Look to **Newterra** for other landfill equipment, including:

- Landfill Leachate/Condensate Pumping
- Groundwater Monitoring Equipment
- Data Collection
- Landfill Gas Products





Unparalleled Rentals, Service & Parts

A Robust Rental Fleet

At **Newterra**, we continue to expand our 100+ rental fleet of process systems and components to accommodate remediation equipment needs that are short term, require a rapid response, or are not within current capital budgets. Our fully warranted rental systems can include an optional services contract, and are also available for purchase.

- **Site Remediation:** A full range of systems and equipment, from multi-phase extraction systems to catalytic oxidizers, oil/water separators and more.
- **Pilot Systems:** Short term pilot studies are the best method for determining site requirements and specifications of full scale, long term solutions. Our rental fleet includes a wide selection of large and small systems optimized for piloting.
- **Construction Dewatering:** Our rental fleet includes water processing systems capable of treating flows up to 500 gallons per minute, as well as pumps, tanks and other accessories for contaminated construction dewatering projects.



Contact us today at **1.800.420.4056** or visit us online at www.newterra.com/equipment-rentals-emergency-response/ and talk to a Dedicated Rentals Specialist about all of your rental needs.





We're Always Here To Help!

A Solid Customer Support Network

Our commitment to supporting customers with all makes and models of remediation systems is demonstrated by our strong service network. With three facilities strategically located throughout North America, **Newterra** can deliver service, parts, field support and rental equipment quickly and efficiently. Many **Newterra** systems feature telemetry for remote monitoring, diagnostics and troubleshooting, allowing proactive maintenance.

- **Start-up Assistance & On-Site Training:** Full system inspection, process alarm testing and training support.
- **Operating & Maintenance Contracts:** Detailed programs are available to maximize efficiency and minimize unscheduled downtime. Our standard 1-year warranty can also be extended.
- **Emergency Troubleshooting & Repair:** Responsive deployment of our trained technicians with the parts and tools to address emergency repairs.
- **Field Installation & Modifications:** Our licensed tradespeople can install your system and perform system modifications on-site.
- **Full Inventory of Parts & Spares:** We're committed to offering the best over-the-counter availability in the industry, as well as one-stop convenience for operation and maintenance suppliers.



Contact us today at **1.800.420.4056** or visit us online at www.newterra.com/contact/ and talk to a **Dedicated Service Specialist** about all of your service needs.





About Newterra

A Global Water Technology Leader

Newterra® is recognized as a global leader in the development of modular treatment solutions for water, sewage, wastewater and groundwater remediation for industrial, municipal, land development, commercial & residential markets. Our heritage of innovation in providing clean water solutions dates back to 1863. Over that time, Newterra has grown to over 200+ people, and we've installed thousands of treatment systems – some of which operate in the most extreme conditions on the planet.

Full Control from Start to Finish

At Newterra, we take full control of virtually every aspect of the treatment systems we build – from process design and engineering to manufacturing, installation, operations and ongoing parts & service support.

This award-winning approach ensures Newterra treatment systems meet our high standards for quality and on-time delivery.

40+

Professional
Engineers

200+

Employees
Worldwide

THOUSANDS

of Installations
Worldwide

 **newterra** **COCHRANE** **TIGG** **AIRE-O₂**
stormwaterRx **CLEAR[®]** **EPRO[™]**

Pittsburg, PA
Sales & Engineering

Brockville, ON
Sales, Engineering, & Manufacturing

Chaska, MN
Sales & Manufacturing

Portland, OR
Sales & Manufacturing

Trooper, PA
Engineering & Sales

Heber Springs, AR
Manufacturing & Fabricating



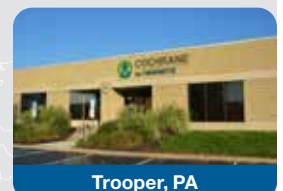
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