

## ION EXCHANGE RESIN REGENERATION AND TANK EXCHANGE

*Envirogen Technologies provides ion exchange (IX) resin regeneration services at our Memphis Service Center, where we regenerate spent ion exchange resin to restore treatment capacity.*

*Advantages of using our services include:*

- *Off-site waste treatment and proper residual management*
- *No regeneration chemicals at the customer's site that pose a safety hazard*
- *Reliable restoration of resin treatment capacity*
- *Flexibility in using Envirogen's tanks and resin, or your own*
- *Your resin will not be comingled with other's resin*

*We process all types of ion exchange resin used in applications ranging from high purity/deionized water production to removal of metals from waste streams.*



### IX RESIN TANK EXCHANGE

Envirogen offers a Service Exchange program using our tanks and vessels, perfect for when on-site regeneration of media is not possible or cost effective. We can provide Envirogen owned tanks and exchange them periodically for tanks with virgin or regenerated resin.

- Standard DI tanks, from 6" to 48" diameter
- Regenerated and virgin resin sales – DI water pre-rinse optional



### REGENERATE IX RESINS USED IN HIGH PURITY APPLICATIONS

High purity water applications utilizing mixed bed or other ion exchange resin require specialized regeneration processes.

When we receive your spent resin, whether loaded in supersacks, totes, your tanks, or Envirogen-owned tanks, our expert technicians will employ our highly effective and efficient process to regenerate high purity resin to renewed treatment capacity. Throughout the process your resin will be segregated from other customer's resin to avoid cross contamination. Your resin will be rinsed with high purity water after regeneration to assure fast rinse-up in your process and tested for exchange capacity.



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## REGENERATE IX RESINS USED WITH WASTEWATER

Ion exchange resin used in a wastewater treatment application may be contaminated with metals. We can regenerate the resin and manage the residual metals, relieving you of that burden. Before returning the resin to you, it is checked for exchange capacity to ensure efficacy in your process.

Specifically, we can regenerate IX resin and media that are not designated as, or treating hazardous wastes (e.g., F006, other listed, or characteristic hazardous wastes).

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## LAB CAPABILITIES

Envirogen has onsite labs in Memphis and can evaluate:

- Bead integrity, physical properties, and condition
- Exchange capacity
- Fouling (organic and inorganic)
- Customized testing programs available

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## ABOUT ENVIROGEN

As a leading water and wastewater treatment provider for over 30 years, we have the experience and the internal expertise to assist you with the toughest water treatment challenges. Customers rely on Envirogen for regeneration services for high purity, mixed bed, softening, and metals removal services to meet process or discharge requirements.

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### NORTH AMERICAN HEADQUARTERS

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### MEMPHIS SERVICE CENTER

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## CASE STUDY

*Recently a metal fabricator was experiencing issues with their current resin regeneration company. Not only were there delays in getting the resin returned, but the quality of the regenerated resin was subpar resulting in scaling of their boiler.*

*The customer switched to Envirogen and is pleased with fast turnaround and high quality of the regenerated resin.*