TRIUMVIRATE ENVIRONMENTAL

www.triumvirate.com



Waste Management

STRATEGIES FOR HEALTHCARE NETWORKS

2025

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Introduction and Document Scope

This document serves as a guide for Triumvirate Environmental's capabilities within the healthcare space, specifically as it relates to waste management. Contained herein is a high-level view of what to expect during waste management program implementation and maintenance, our utilized waste streams, our definition of success, and how we continue to push to raise the bar for pharmaceutical waste management.

At the conclusion of this guide, you should have a deeper understanding of the ways that Triumvirate Environmental can help support a holistic waste management and disposal program.



Waste Management Process

Triumvirate Environmental uses three distinct phases to scope waste management needs and operationalize processes for the long term: the **Informational Phase**, the **Operational Phase**, and the **Educational Phase**.

1. **Informational:** We assemble a full understanding of the breadth, depth, and size of your institute's current waste program and needs moving forward using various tools:
   - Formal waste characterization via Triumvirate Environmental's ADVISE waste compliance platform, which offers custom reporting. See Table 1 below for a sample of collected information.
   - Non-Formulary and On-Formulary characterization as relevant
   - Reverse distribution policy and data review
     i. Creditable vs. non-creditable pharmaceuticals
     ii. Inform correct collection and disposal
   - Once the scope is clear, we create a waste management program or propose updates to your existing program based on waste generation and continuing need.
     i. We take into consideration the complexity of multiple (on or offsite) locations in a single health network

Table 1. *Collected information during waste characterization/review*

National Drug Code (NDC Number)	Brand Name of Pharmaceutical	Generic Name of Pharmaceutical	Form of the Pharmaceutical
Ex: 010-0011-987	Ex: Coumadin	Ex: Warfarin	Ex: Pill / Tablet

2. **Operational:** We turn our discovery into concrete program components, including:
   - Identification of SAAs and:
     i. Container type and size
        1. Single-use, multi-use, or reusable
     ii. Specific locations
     iii. Placements, including height
     iv. Off-site locations
     v. Additional equipment needed (ex: brackets)
     vi. The needs of any nursing units, pharmacy, and medication carts
     vii. Signage
   - Onsite support (if relevant)
     i. Routine frequency
     ii. Inspection criteria and frequency
   - Identification of MAA and:
     i. Storage and space requirements
     ii. Palletization/consolidation
     iii. Inspection requirements, including frequency
   - Identifying other items for pharmaceutical waste collection and disposal:
     i. Hand sanitizer
     ii. Dialysis electrolyte solutions
     iii. DEA controlled substances
     iv. Compounding chemicals
     v. Central sterile materials

3. **Educational:** Triumvirate Environmental can train internal trainers or perform widespread training and certification for all employees—or anything in between. We can train on an ongoing basis for onboarding or yearly refreshers or provide one-off trainings for new protocols or processes. Training topics and related resources can include:
   - Labels and signage
     i. Color coding
     ii. Pyxiz/Omnicell assistance flagging
     iii. QR barcoding
     iv. Multi-stream signage
   - Policies and procedures
     i. Trace (RMW) vs. bulk (hazardous or non-hazardous) chemotherapy
     ii. Quarterly volume recording
   - Individual training certificates or bulk certificates
   - Ongoing client education documentation
     i. Who, when, and what
   - Monthly status reports

What is the treatment standard that we utilize by stream?

TREATMENT OPTIONS AVAILABLE

	Hazardous Pharma	Non-Hazardous Pharma	Trace Chemotherapy	Bulk Chemotherapy
Incineration	✓	✓	✓	✓
Waste-to-Energy		✓	✓	
Recycling			✓	

How do we measure success?

Over-delivery of waste management services:

We want our clients to be more than satisfied with their waste management and disposal services—in fact, we aim to WOW! In evaluating this, we will review year-over-year RMW disposal expenditure relative to volume change and the healthcare networks' chosen variable, before and after partnering with us.

Reduction in safety and operational gaps:

We look for a decrease in waste-related workplace incidents, as measured by:

- *OSHA 300 log*
- *HR-identifed events*
- *Gap analyses*
- *Employee interviews*
- *Education surveys*

Ensured, continued compliance:

We aim to ensure compliance and will measure success through periodical evaluation via inspection trending that is evaluated against a specific percentage as jointly determined by the client and our internal experts.

Harmonious operations, even amid complex program components:

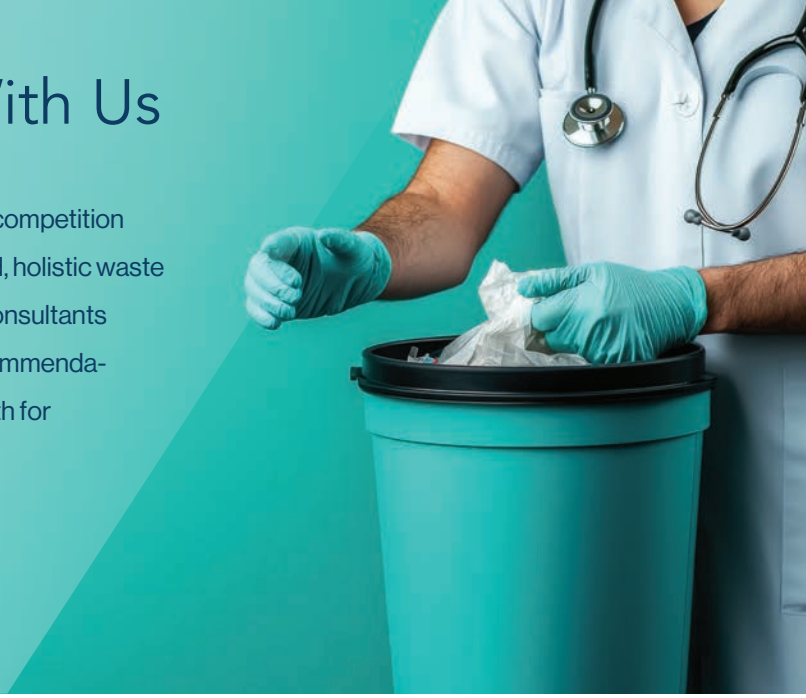
As your single point of contact for any waste need, we aim to make communication and invoicing more efficient. Our goal is to lift the burden of waste management so your team can focus on their core duties.

Systematic and comprehensive waste reduction plan and targets, with full access to data:

To ensure you get the most from your data and plans, we track data collection implementation and monitor staff education. We aim to increase recycling totals and decrease the volume of waste sent to landfill.

Benefits of Partnering With Us

Ultimately, Triumvirate Environmental stands apart from the competition because we are the only partner who can provide end-to-end, holistic waste management and disposal for the healthcare industry. Our consultants review your current waste disposal programs and make recommendations that align with safety, compliance, and sustainability, both for waste generation reduction upstream and for downstream disposal. We can also integrate our teams on your site to manage waste disposal requirements and implement our suggested waste management plans.



- **A proven track record** (decades) of commercial waste disposal success.
- **A client-first mentality:** We aim to elevate the customer experience by anticipating your organization's every need—then exceeding your expectations.
- **Extensive training** for Triumvirate team members.
- Access to **leading experts** in healthcare, waste disposal, and consulting.
- **On-site and off-site support:** Whatever you need to make your waste programs a success; our team is standing by to help.
- **Freedom for your team:** Our staff can fully take over your commercial waste management and disposal processes, allowing your staff to focus on their high-impact work and day-to-day responsibilities more than managing waste.
- **In-house software and reporting:** Our industry-leading solutions are designed to fully manage waste and safety programs.
- Proven increased **operational safety**.
- Opportunities for **cost savings** because we can utilize different disposal technologies or work to reduce waste at the point of generation.
- Full **data visibility** and access to support reporting.
- **Assured compliance**.
- **A North American footprint:** With facilities across the United States and Canada, our waste disposal capabilities are unrestricted and flexible to meet you where you are or grow with you as you expand.
- **Quality Assurance programs:** We create site-specific SOPs and operations manuals to ensure on-site teams are consistently delivering services in the safest possible manner.
- **Increased productivity:** Our team is 10-15% more productive than the competition.
- **Maximized sustainability:** Our team will always find the best ways to minimize, recycle, or otherwise sustainably dispose of your waste. This applies not only to disposal, but upstream management to prevent waste from even being generated in the first place as well.
- **Quick and painless new customer onboarding:** We make switching from a previous partnership quick, efficient, and systematic, with the goal of improving every part of the partner relationship with you.

Internal Education Requirements

Mandatory education model for Triumvirate Environmental support team members—we continue to raise the bar for our clients.

1. *Environmental Specialist (ESPEC) pharmaceutical training yearly refresher requirement*
2. *Operations and Sales pharmaceutical program training requirement upon new client onboarding*
3. *Account-specific documentation for internal and external consistency*