



# Florida Department of Environmental Protection

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Noah Valenstein  
Secretary

May 17, 2018

John F. McQuillan, President  
Triumvirate Environmental, Inc.  
10100 Rocket Boulevard  
Orlando, Florida 32824  
[jmcquillan@triumvirate.com](mailto:jmcquillan@triumvirate.com)

Re: Triumvirate Environmental, Inc.  
HW Facility ID #FLD980559728  
Orange County

Dear Mr. McQuillan:

Department personnel conducted an inspection of the above-referenced facility on March 7, 2018 and March 8, 2018. Based on the information provided during and following the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Michael Eckoff at 407-897-4308 or via e-mail at [michael.eckoff@dep.state.fl.us](mailto:michael.eckoff@dep.state.fl.us).

Sincerely,

A handwritten signature in black ink, appearing to read "Sirena Davila".

Sirena Davila, Manager  
Central District  
Florida Department of Environmental Protection

Enclosure: Inspection Report



**Florida Department of  
Environmental Protection  
Hazardous Waste Inspection Report**

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**FACILITY INFORMATION:**

**Facility Name:** Triumvirate Environmental Inc

**On-Site Inspection Start Date:** 03/07/2018

**On-Site Inspection End Date:** 03/08/2018

**ME ID#:** 10046

**EPA ID#:** FLD980559728

**Facility Street Address:** 10100 Rocket Blvd, Orlando, FL 32824-8565

**Contact Mailing Address:** 10100 Rocket Blvd, Orlando, FL 32824-8565

**County Name:** Orange

**Contact Phone:** (407) 218-6703

**NOTIFIED AS:**

LQG (>1000 kg/month)

TSD Facility

Transfer Facility

Transporter

Used Oil

**INSPECTION TYPE:**

Routine Inspection for TSD Facility facility

**INSPECTION PARTICIPANTS:**

**Principal Inspector:** Michael Eckoff, Inspector

**Other Participants:** Kaelyn Malone, Environmental Specialist; Bret Skinner, Disposal Coordinator; Frank Colosi, Lab Services Manager; Chris King, Facility Manager; Tyler Klawinski, Facility Specialist

**LATITUDE / LONGITUDE:** Lat 28° 25' 5.8132" / Long 81° 23' 10.5985"

**SIC CODE:** 4953 - Trans. & utilities - refuse systems

**TYPE OF OWNERSHIP:** Private

**Introduction:**

On March 7 and 8, 2018, Michael Eckoff and Kaelyn Malone, Florida Department of Environmental Protection, accompanied by Bret Skinner, Frank Colosi, Chris King, and Tyler Klawinski, Triumvirate Environmental Inc, inspected Triumvirate Environmental Inc for compliance with permit number 26916-HO-008 and with state and federal hazardous waste and used oil regulations.

Triumvirate Environmental, Inc. operates a hazardous waste container storage facility and waste treatment units, and implements HSWA corrective action requirements under permit number 26916-HO-008. The permit was issued on January 8, 2014 and it expires on November 6, 2018.

Triumvirate Environmental, Inc. is a Large Quantity Generator, Hazardous Waste Transporter and Transfer Facility, Used Oil and Used Oil Filter Transporter and Transfer Facility, and Transporter and Transfer Facility for Universal Waste Lamps and Devices, and a Small Quantity Handler Facility for Universal Waste Lamps and Devices.

**INSPECTION HISTORY (past five years)**

The facility was inspected on April 13 and 14, 2016 by the Department for compliance with permit number 26916-HO-008, and with state and federal hazardous waste and used oil regulations. The facility was not in compliance due to failure to ensure all labels were facing out. Corrective actions were completed and the case was closed without formal enforcement.

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The facility was inspected on July 14, 2014 by the Department and US EPA - Region IV for compliance with permit number 26916-HO-008, and with state and federal hazardous waste and used oil regulations. This was a US EPA lead inspection. The facility was not in compliance due to failure to prepare a manifest for a shipment of hazardous waste and direct that shipment to a facility that has received an EPA identification number, failure to store hazardous waste in containers that are in good condition, failure to keep containers of hazardous waste closed while in storage, failure to maintain and operate the facility to minimize the possibility of a release of hazardous waste, failure to keep the list of emergency coordinators in the contingency plan up to date, failure to transfer hazardous waste from a container that is not in good condition to a container that is in good condition, and disposed of universal pharmaceutical waste when such activity is prohibited. Resolution of these alleged violations was referred to US EPA.

The facility was inspected on April 11, 2013 by the Department, during a pre-arranged site visit to discuss the facility's permit renewal, due on May 9, 2013. No violations were noted during this inspection.

### **Process Description:**

Triumvirate Environmental, Inc. is permitted to store a maximum of 824 55-gallon drums, or equivalent, in three sub-units in the Container Storage Building, Waste Consolidation Area, and Waste Stabilization Area. The Container Storage Building sub-units consist of the South Sub-Unit, the East Sub-Unit, and the Northwest Sub-Unit. The South Sub-Unit is for storage of Acidic, Toxic, and Non-Hazardous wastes. The East Sub-Unit is for storage of Alkaline, Toxic, Universal, and Non-Hazardous wastes. The Northwest Sub-Unit is for storage of Non-Hazardous wastes.

Triumvirate Environmental, Inc. collects hazardous waste from generators using Triumvirate Environmental, Inc.'s own transportation services as well as other registered hazardous waste transporters. Generators serviced by Triumvirate Environmental, Inc. are those that generate hazardous waste that is exclusive of explosive or radioactive waste. Triumvirate Environmental, Inc. collects hazardous waste and stores the material in its warehouse for up to a year before transporting the waste to an off-site disposal facility. Triumvirate Environmental, Inc. also operates a 10-day transfer facility.

Hazardous wastes and solid wastes are segregated at the facility according to compatibility groups as outlined in the permit. Storage areas have secondary containment to minimize and prevent possible releases to the environment. At the time of inspection, the facility was not stabilizing wastes containing heavy metals to render them non-hazardous. Triumvirate Environmental, Inc. is using a bar-coding system for waste in the permitted storage area to ensure the waste is staged in an area with compatible waste. The bar-coding system uses an iPhone to read the bar-codes.

### **INSPECTION NARRATIVE**

#### **LOADING DOCK**

Two trailers were parked at the loading dock and being loaded for outbound shipment. Waste stored on the loading dock was both offloaded from a trailer and being loaded onto trailers, according to Mr. King.

The waste offloaded consisted of:

- Eight 55-gallon drums, two 30-gallon drums, and four 5-gallon containers of non-hazardous waste
- Five 55-gallon drums and 16 5-gallon containers of hazardous waste
- One 20-gallon container of universal pharmaceutical waste

The waste being loaded consisted of:

- Eleven 55-gallon drums and three 5-gallon containers of universal waste - batteries

Storage of 10-day transfer waste was located on the dock. Although a sign was posted, it was not clear what wastes were 10-day transfer waste. Facility personnel were reminded that stanchions need to define the limits of 10-day transfer waste. Flammable liquid wastes are not stored inside the building due to fire codes so the dock is used for temporary storage.

The 10-day storage area consisted of one over-pack drum, four 55-gallon drums, one 30-gallon drum, and four 5-gallon containers of hazardous waste.

Adjacent to the loading dock is a two-compartment tank for used oil. One compartment of the tank is 15,000-gallons and the other is 7,000-gallons. The used oil tank was properly labeled and closed at the time of the inspection.

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## CONTAINER STORAGE BUILDING

The waste storage area is subdivided through work practices into three areas: the north wall, with rows 101-105 for non-hazardous wastes; the east wall, with rows 201-210 for universal wastes, poisons, and corrosives; and the south wall, rows 301-306, for storage of oxidizers.

There were several areas of the floor near the entrance to the building that appear to need resealing.

NOTE: In an email dated May 8, 2018, Richard Barry, Director of Compliance, stated the floor has been resealed and attached pictures of the floor.

Row 101 contained 14 boxes of biomedical waste.

Row 102 contained 12 55-gallon drums of non-hazardous waste. Types of wastes included used oil, used coolant, limestone chips, and used oil and water mixture. One container of used oil had both a hazardous waste label and a non-hazardous waste label.

NOTE: In an email dated March 23, 2018, Mr. Barry stated this container should have been more clearly labeled and that facility personnel will continue to be diligent when receiving and inspecting containers to ensure that marking and labeling is done in a manner that prevents confusion and accurately communicates the container contents and associated hazards.

Row 103 contained 30 55-gallon drums, two 30-gallon drums, and 24 containers of varying sizes, from 5-gallon to 55-gallon, of non-hazardous waste. Types of wastes included sodium bicarbonate, ethidium bromide, calcium chloride/potassium oxalate, and gluteraldehyde.

Row 104 contained eight 55-gallon drums, one 30-gallon drum, seven 5-gallon containers, and one over-pack drum of non-hazardous waste. Types of wastes included sodium thiosulfate/sodium sulfate, oily rags, atropine, and used absorbents. One container of cutting oil/steel had both a hazardous waste label and a non-hazardous waste label. One 55-gallon drum was positioned such that the label was not facing out [403.727(1)(c), F.S.].

NOTE: In an email dated March 23, 2018, Mr. Barry stated the hazardous waste label was determined to be a remnant of the transportation process, i.e. trash, and was removed and that facility personnel will continue to be diligent when receiving and inspecting containers to ensure that marking and labeling is done in a manner that prevents confusion and accurately communicates the container contents and associated hazards.

Row 105 contained one pallet of eight 18-gallon containers that were shrink-wrapped together, two cubic-yard boxes, and 35 containers of varying sizes, from 5-gallon to 55-gallon, of non-hazardous waste and universal pharmaceutical waste. Types of wastes included chlorambucil mitomycin, albuterol, and inhalers.

Mr. King stated the Haz cabinet was not in use. This cabinet is used to store DOT Division 4.3 wastes (dangerous when wet). In front of the cabinet were four containers of universal waste – lamps and one container of alkaline batteries.

Row 201 contained 24 containers of varying sizes, from 2.5-gallon to 55-gallon, of hazardous wastes, three boxes of universal waste – lamps, and three containers of non-hazardous waste. Types of hazardous waste included mercury sulfide, mercuric sulfate, and mercuric chloride.

Row 202 contained 16 containers of varying sizes, from 5-gallon to 55-gallon, of hazardous wastes. Types of wastes included specimens and formalin, mercuric nitrate, mercuric chloride/barium chloride, and cupric sulfate/sodium phosphate.

Row 203 contained seven 55-gallon drums and one 18-gallon container of hazardous waste. Types of wastes included puridine/potassium cyanide, perchloroethylene, mercuric chloride, and malathion/permethrin.

Row 204 contained 18 55-gallon drums, one 30-gallon drum, one 15-gallon container, and four 5-gallon containers of hazardous waste and one 30-gallon plastic box of universal pharmaceutical waste. Types of waste included sodium bicarbonate, magnesium sulfate, barium chloride, silver chloride, mercury, and sodium arsenite.

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Row 205 contained five 55-gallon drums, two 30-gallon drums, two 15-gallon containers, and 20 5-gallon containers of hazardous waste. Types of waste included sodium tripolyphosphate, arsenic acid, brass, lead, acrylamide, and sodium phosphate.

Row 206 contained three 10-gallon containers and 34 5-gallon containers of hazardous waste. Types of wastes included potassium cyanide, osmium tetroxide, vanadium pentoxide, nicotine, cyclophosphamide, and mercuric iodide.

Row 207 contained three 55-gallon drums, 14 30-gallon drums, six 15-gallon containers, one 10-gallon container, and three 5-gallon containers of hazardous waste. Types of wastes included methylene chloride, sodium carbonate, cadmium acetate, and osmium tetroxide.

Row 208 contained 20 55-gallon drums and six 30-gallon drums of hazardous waste. Types of wastes included barium sulfate, cadmium, osmium tetroxide, nickel sulfate, lithium chloride, potassium cyanide, sodium cyanide, and sodium azide.

Row 209 contained one over-pack drum, ten 55-gallon drums, one 30-gallon drum, one 15-gallon container, and four 5-gallon containers of hazardous waste. Types of waste included chlorosilanes, tetraethylenepentamine, 2-methylpentamethylenediamine, propylidynetrimethanol, 1,2-diaminocyclohexan, and hexamethylenediamine.

Row 210 contained one 30-gallon drum, one 15-gallon container, and nine 5-gallon containers of hazardous waste. Types of waste included ethanolamine.

Row 301 contained one over-pack drum, five 55-gallon drums, two 30-gallon drums, two 15-gallon containers, and 13 5-gallon containers of hazardous waste. Types of waste included nitric acid/silver nitrate, sodium nitrate, and magnesium nitrate.

Row 302 contained one over-pack drum, one 55-gallon drum, six 30-gallon drums, and four 5-gallon containers of hazardous waste. Types of waste included hydrogen peroxide, iron nitrate/oxalic acid, silver nitrate/copper nitrate, nitric acid/silver nitrate, ammonium perchlorate, and chromium trioxide.

Row 303 contained 12 55-gallon drums and one 5-gallon container of hazardous waste. Types of wastes included nitric acid.

Row 304 contained five 55-gallon drums, five 30-gallon drums, eight 15-gallon containers, four 5-gallon containers, and two boxes of hazardous waste. A pallet containing waste containers was positioned outside the containment area of Row 304. Types of waste included nitric acid/lead chloride, bromide solution, dibutyltin dilaurate, hydrochloric acid, phosphoric acid, sulfuric acid, and formaldehyde.

Row 305 contained five 55-gallon drums, one 30-gallon drum, five 15-gallon containers, and 14 5-gallon containers of hazardous waste. Types of waste included aqueous hydrazine solution, aluminum chloride, trifluoroacetic acid, hydrochloric acid, mercuric chloride propionic acid/methylbutyric acid, and nitric acid/sulfuric acid.

Row 306 contained five 55-gallon drums, three 30-gallon drums, five 15-gallon containers, and 17 5-gallon containers of hazardous waste. Types of waste included nitric acid/sulfuric acid, hydrochloric acid, and hydrofluoric acid.

The location of a random selection of emergency equipment was verified as to their location specified in the operation plan, no issues were noted.

Near the fence where trucks enter the facility was a pallet of bags. Inside the bags were batteries from insulin pumps. Mr. King indicated the batteries are managed as universal waste and are delivered by various carriers, i.e. FedEx, UPS, etc. The carrier will place the bags on the pallet then facility personnel will sort the batteries and place them in cubic-yard boxes in the Container Storage Building. None of the bags were labeled "Universal Waste-Batteries."

NOTE: In an email dated March 12, 2018, Mr. Skinner was asked to describe the procedure for authorizing,

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accepting, and managing the batteries as required by the permit. On March 23, 2018, Mr. Barry replied stating, "the silver oxide batteries do not come from hospitals, but rather directly from consumers as 'household hazardous waste.' The approval process works like this. The batteries arrive at the facility in bags. The bags are promptly opened to confirm the contents. The batteries are then added to a properly labeled/marked cubic yard shipping container. This process occurs in the 'consolidation area.' Once full, the cubic yard container is shipped to an approved TSDF for incineration. The silver oxide batteries are accounted for in our inventory via a bar code affixed the cubic yard box at the beginning of the consolidation process. It is Triumvirate's intention to more clearly describe this process in our pending permit renewal application."

#### CONSOLIDATION BUILDING

No consolidation activities were being conducted at the time of the inspection.

The area is also used for storage of supplies.

The following containers were stored in the building:

- Seven 55-gallon drums of non-hazardous waste crude oil/water;
- One 55-gallon drum of non-hazardous waste sodium hydroxide;
- Two 55-gallon drums of used oil;
- Two 5-gallon containers of non-hazardous waste rinsate from rinsing pH equipment; and
- Several product containers of mineral oil, hydraulic oil, and limestone chips

Outside the west side of the Consolidation Building was a covered 30-yard roll-off dumpster and tractor-trailer that were empty, two box trucks awaiting off-loading, a tanker containing oily water, and two vac trucks. The tanker is being filled from the vac trucks and once full is hauled off-site to Aquaclean. The used oil tank was also in this area. The tank was properly labeled and closed.

The tanker, two box trucks, and the two vac trucks were staged next to a storm water drain. Facility personnel were asked to review their Storm Water Pollution Prevention Plan for best management practices regarding the potential for releases.

On the east side of the property was a shed containing emergency response supplies. Next to the shed were six tractor-trailers and a tanker. The trailers are used to store empty containers and drums. Located at the fence next to the parking lot was a tanker and two tractor-trailers. The tanker is staged for future use, one trailer's back door was open but the lift-gate was inoperable not allowing access to the trailer, and the other contained emergency response supplies for mobilization to sites. Located just outside the east side of the Consolidation Building was a shed containing parts and supplies and a box truck for placing empty containers and drums.

#### RECORDS

A copy of the permit and application were available on-site.

A copy of the current inventory for the TSDF as of March 7, 2018 was provided prior to leaving the facility that day. According to the inventory log, three containers F114394-01-01, F114395-01-01, and F114395-02-01, which were received by Triumvirate on March 7, 2017, exceeded the permitted storage time limit of one year. Specifically, the containers were stored for 366 days. In addition, according to the log, two other containers were at day 364 in storage.

NOTE: In an email dated March 12, 2018, Mr. Barry stated, "A review of our records shows that the three containers noted were shipped in 2017 on the following dates and manifests:

3/22/17 - F114394-01-01 was a 55-gal drum of oily water pumped into container 221592FL which shipped out on manifest NHWM093738

4/3/17 - F114395-01-01 was a 55-gal drum of oily rags that was consolidated into container 222051FL which shipped out on manifest NHWM093741

5/15/17 - F114395-02-01 this was an empty container sent for reconditioning, it was shipped on BOL052017FL

Although the March 7th inventory showed three containers had exceed the 365 days limit, in reality we are certain that this was not the case, nor were the other two containers in storage for 364 days, as indicated

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above. The most reasonable cause for this container date confusion is that an error occurred while reconciling our inventory. In fact, to be certain that the inventory was inaccurate in those five examples, facility personnel conducted a container-by-container hands-on reconciliation just to be sure. The results were as we expected; no containers were at or near to the one year storage limit. However, to be sure that there are no similar future reconciliation errors, Triumvirate will commence monthly container-by-container reconciliations just to be certain. These reconciliations will be documented."

Review of the contingency plan required under permit condition Part II. Subpart A. Number 12. and 40 CFR Part 264 Subpart D found no issues.

Review of employee job titles and descriptions required under permit condition Part II. Subpart A. Number 9. and 40 CFR 264.16(d) found Mr. Klawinski's and Mr. Colosi's job titles do not match with identified job descriptions in the operation plan [403.727(1)(c), F.S.].

Review of weekly inspections required under permit condition Part II. Subpart B.2 Number 7. and 40 CFR 264.174 found the facility is not documenting that storage capacity has not been exceeded [403.727(1)(c), F.S.].

Review of employee training records required under permit condition Part II. Subpart A. Number 9., 40 CFR 264.16, and 40 CFR 265.16 found no issues.

Review of non-hazardous waste shipping papers and hazardous waste manifests shipped off-site found no issues.

#### **New Potential Violations and Areas of Concern:**

##### **Violations**

Type:	Violation
Rule:	403.727(1)(c)
Explanation:	Fail to comply with a permit.  Specifically, Triumvirate Environmental Inc failed to ensure all labels face out, used position titles for two employees that do not match position descriptions identified in the operation plan, and failed to document in the weekly inspection logs that storage capacity has not been exceeded.
Corrective Action:	In an email dated March 23, 2018, Mr. Barry stated the requirement that all labels face out has been reinforced with facility personnel, provided position descriptions and stated the facility intends to update descriptions in the permit renewal, and stated the weekly inspection log now includes a hand-written notation that the maximum container storage limit has not been exceeded.

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#### **Conclusion:**

Triumvirate Environmental Inc was inspected as a treatment, storage, and disposal facility and was not in compliance with state and federal hazardous waste and used oil regulations. Corrective actions were completed prior to the issuance of this report.

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**1.0 - Pre-Inspection Checklist**

## Requirements:

The requirements listed in this section provide an opportunity for the Department's inspector to indicate the conditions found at the time of the inspection. A "Not Ok" response to a requirement indicates either a potential violation of the corresponding rule or an area of concern that requires more attention. Both potential violations and areas of concern are discussed further at the end of this inspection report.

**Note: Checklist items with shaded boxes are for informational purposes only.**

Item No.	Pre-Inspection Review	Yes	No	N/A
1.1	Has the facility notified with correct status? 262.12	✓		
1.2	Has the facility notified of change of status? 62-730.150(2)(b)	✓		
1.3	Did the facility conduct a waste determination on all wastes generated? 262.11	✓		



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**Signed:**

A hazardous waste compliance inspection was conducted on this date, to determine your facility's compliance with applicable portions of Chapters 403 & 376, F.S., and Chapters 62-710, 62-730, 62-737, & 62-740 Florida Administrative Code (F.A.C.). Portions of the United States Environmental Protection Agency's Title 40 Code of Federal Regulations (C.F.R.) 260 - 279 have been adopted by reference in the state rules under Chapters 62-730 and 62-710, F.A.C.

Michael Eckoff

**Principal Inspector Name**

Inspector

**Principal Inspector Title**

Michael Eckoff

**Principal Inspector Signature**

DEP

**Organization**

05/14/2018

**Date**

Kaelyn Malone

**Inspector Name**

Environmental Specialist

**Inspector Title**

FDEP - Central District

**Organization**

Bret Skinner

**Representative Name**

Disposal Coordinator

**Representative Title**

Triumvirate Environmental Inc

**Organization**

NOTE: By signing this document, the Site Representative only acknowledges receipt of this Inspection Report and is not admitting to the accuracy of any of the items identified by the Department as "Potential Violations" or areas of concern.

Frank Colosi

**Representative Name**

Lab Services Manager

**Representative Title**

Triumvirate Environmental Inc

**Organization**

NOTE: By signing this document, the Site Representative only acknowledges receipt of this Inspection Report and is not admitting to the accuracy of any of the items identified by the Department as "Potential Violations" or areas of concern.

Chris King

**Representative Name**

Facility Manager

**Representative Title**

Triumvirate Environmental Inc

**Organization**

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Tyler Klawinski

**Representative Name**

Facility Specialist

**Representative Title**

Triumvirate Environmental Inc

**Organization**

NOTE: By signing this document, the Site Representative only acknowledges receipt of this Inspection Report and is not admitting to the accuracy of any of the items identified by the Department as "Potential Violations" or areas of concern.

**Report Approvers:****Approver:**

Sirena Davila

**Inspection Approval Date:**

05/17/2018