

**HAZARDOUS WASTE SECTION - COMPLIANCE BRANCH  
FILE TRANSMITTAL & DATA ENTRY FORM**

**Your Name:** Heather Goldman

**Facility ID Number:** ~~NC~~NCR000150748

**Facility Name:** Novant Health Matthews Medical Center

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**Author(s) of Document:** Heather Goldman

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**Suborganization:** Western Region

**County (if not on report):** Mecklenburg

**STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF WASTE MANAGEMENT  
HAZARDOUS WASTE SECTION**

**LARGE QUANTITY GENERATOR (LQG)  
COMPLIANCE EVALUATION INSPECTION (CEI) REPORT**

**Facility Information:** Novant Health Matthews Medical Center

1500 Matthews Township Parkway, Matthews, NC 28105

**EPA ID:** NCR000150748

**Facility Contact:** Roger Blythe - Environmental and Health Safety Specialist

**Present at Inspection:** Roger Blythe – Environmental and Health Safety Specialist; Johnathan Revis (Clean Harbors); Armund Ransom (Clean Harbors); Chris Hutter – Administration; Bill Newby – Engineering Manager; Regina Chipman-Ashley – Pharmacy; Mary Gregg – Laboratory Manager; Heather Goldman - NCDEQ

**Inspection Date:** May 25, 2016

**Date of Report:** May 27, 2016

**Type of Business:** Novant Health Matthews Medical Center (facility) is a hospital located in Matthews, Mecklenburg County, NC. This facility is located on approximately 54 acres. The facility currently has 146 beds and is adding a new Women’s Center. The waste generated from the facility comes from their pharmacy, patient pharmaceuticals, laboratory, as well as various locations throughout the hospital. Novant Health has developed a signed agreement where Clean Harbors is designated as an Authorized Representative for hazardous waste disposal services at the Presbyterian Hospital Matthews facility. The agreement was signed on 7-27-2011.

Unused and unopened medications that are in the original packaging are sent to EXP through a reverse distribution process. The hospital maintains paperwork to document credit for reverse distribution. The EPA proposed pharmaceutical rules were briefly discussed. All open medication packages and open/unused medications are managed as hazardous waste. This waste is generated in the patient care area and is all co-mingled and shipped with P-listed waste. The facility does not conduct solvent distillation or silver recovery. Waste alcohols are sent off for disposal as hazardous waste. The facility has an Emergency Manager that maintains contingency plans that are received from offsite facilities. The facility is currently operating as and notified with the State as a Large Quantity Generator (LQG) of hazardous waste.

**General Information:**

- Legal owner of facility: Novant Health
- Legal owner of property: Novant Health
- Number of Employees/Shifts: Approximately 768 employees/ operating 24/7
- Water supply (municipal or well): Charlotte Water
- Municipal sewer/septic/on-site treatment facility: Charlotte Water
- Number of on-site wells: One active irrigation well
- Distance to closest off-site well: Approximately 1000 feet to an active monitoring well

- Closest private residence: Approximately 500 feet
- Site Acreage: Approximately 54 acres

**Areas of Inspection**

**Manifests:** Manifests were reviewed for April 2014 - present. All manifest appeared to be up-to-date and in good order. The facility maintains Land Disposal Restriction Notifications for each waste stream. The following transporters and TSDf were noted:

Transporters:	Clean Harbors Environmental Services Inc.	MAD 039 322 250
	Robbie D Wood, Inc.	ALD 067 138 891
	SLT Express Way Inc.	AZR 000 508 515
	Maumee Express, Inc.	NJD 986 607 380
	Basin Environmental & Safety Technologies	OKR 000 023 085
TSDf:	Clean Harbors Deer Park, LP	TXD 055 141 378
	Clean Harbors Reidsville, LLC	NCD 000 648 451

**Generated Wastes:**

Waste Meds-Liquids	Isopropyl Alcohol, Nicotine	P001, P075, P188, U010, U035, U058, U059, U129, U200, U205 U206, U248, D001, D004, D005 D007, D009, D010, D011, D013, D024
Waste Meds	Sharps, Warfarin	P001, P075, P188, U010, U035, U058, U059, U129, U200, U205 U206, U248, D001, D004, D005 D007, D009, D010, D011, D013, D024
Waste Flammable Liquid	Buffer, Xylene	D001
Waste Aerosols	Albuterol	D001
Waste Corrosive Liquid, Toxic	Formaldehyde, Acetic Acid	D001, D002
Waste Hydrochloric Acid		D002
Waste Flammable Liquid	Acetone, Hexane	D001
Waste Corrosive Liquid, Acidic, Organic Hydrochloric Acid		D002

**Inspection Records:** Weekly inspections were reviewed for April 2014 – present. The facility conducted weekly inspections of the less than 90-days Hazardous Waste Storage Area. Weekly inspections are conducted and documented by Clean Harbors employees. It is a reminder that weekly inspections must include inspecting hazardous waste storage containers for deterioration due to corrosion, per 40 CFR 265.174.

**Contingency Plan:** The facility maintains a LQG contingency plan which was last revised in July 2015. The plan includes all necessary information such as emergency coordinators contact information, emergency procedures and equipment, evacuation routes and responder information. Edward Aston and Scott Debbold are designated as the facility’s Primary and Secondary Emergency Coordinators, respectively. The plan and emergency arrangement letters were sent to Matthews Fire Department and Matthews Police Department on August 3, 2015. Copies of the emergency arrangement letters and certified mail receipt were available for review.

**Emergency Preparedness:** The facility is equipped with emergency equipment (fire extinguishers, safety showers, eyewash stations, spill kits, alarms, first aid, and a sprinkler system) and communication equipment. Fire extinguishers are maintained annually by First Fire and Elite Resources. Monthly fire extinguisher checks are conducted internally by Engineering. Employees are trained as to their requirements during emergency response situations. Emergency arrangements have been made with local responders and all emergency equipment is tested and maintained. Additionally, the local Fire Marshal conducts an annual inspection at the facility.

**Waste Minimization:** The facility maintains a Waste Minimization Plan, dated July 2015. The facility has implemented measures to reduce the waste they generate. They have a system where waste is segregated into appropriate streams. Also, potential waste is identified prior to it leaving certain areas, such as the pharmacy. They implement measures such as source reduction, recycling, and substitution where available.

**Training Records:** The facility provides training for their employees related to hazardous waste management. Edward Aston received training on 5/14/2015 and 4/7/2016, and contingency plan review on 4/7/2016. Scott Debbold received training on 5/14/2015 and 4/5/2016, and contingency plan review on 4/5/2016. Mr. Rodger Blythe attended NCMA Hazardous Waste training on May 19, 2016. All handlers have proper job titles and descriptions. Additionally, all nurses receive basic training related to waste management and segregation in appropriate containers. The facility keeps training records and job descriptions for Clean Harbors employees on-site. All on-site Clean Harbors employees that handle hazardous waste for Novant Health Matthews Medical Center review the contingency plan annually and have received annual hazardous waste training that is provided by Clean Harbors. Mr. Blythe conducts and documents additional site specific contingency plan review with Clean Harbors employees.

**Biennial Report:** The facility submitted their 2016 Biennial Report for the waste they generated in 2015 on February 16, 2016.

**Satellite Accumulation Area:** The facility maintains satellite containers throughout the hospital in patient care areas and in the Pharmacy. Each satellite area in the hospital is equipped with one (1) 3-gallon, 19-gallon, and/or 5.4-quart container. The containers hold pharmaceutical waste with sharps or pharmaceutical waste without sharps. These containers hold both solid and liquid waste. Liquid waste is typically contained within individual dose size packaging, minimizing the occurrence of free liquid waste inside the containers. There are also other non-hazardous containers managed by Stericycle located throughout the facility. They manage red containers for Bio-Medical waste and yellow containers for trace chemo wastes.

During the inspection, 13 satellite containers were inspected, including: Pharmacy, ICU, Intermediate, Endo, and Pre-Op. Each container was maintained in the closed position and properly identified with "Hazardous Waste" labels. These containers are managed at least weekly and on an as needed basis. Clean Harbors is contracted to manage satellite accumulation containers. Clean Harbors employees remove the bags from the containers and walk the waste to the <90-day hazardous waste storage area where it is prepared for transport.

Four (4) 1-gallon containers were observed in Pathology. These containers were stored in a fume hood, closed, and labeled as Waste Flammable.

**Hazardous Waste Storage Area:** The facility maintains one (1) less than 90-day hazardous waste storage area (HWSA). This area is located on the ground level of the hospital in a locked wire cage. The HWSA has restricted access, as well as secondary containment via spill platforms that are large enough to fit two (2) 55-gallon containers side by side. The wire cage is labeled with a "Hazardous Waste Storage Area" sign. There is also a "No Smoking, No Open Flames, No Sparks" sign and emergency information posted on the cage door. A fire extinguisher was mounted on the outside of the cage next to the door. A mobile spill kit was located outside the HWSA cage. Clean Harbors employees use mobile phones for communication in the area. One (1) 55-gallon containers of waste pharmaceuticals, was observed in the HWSA. The container was observed as closed, labeled, and dated as 5/24/2016.

**Universal Waste:** The facility manages universal waste lamps in the Engineering department, inside a storage closet. During the inspection there were twelve (12) 4-foot boxes of used lamps, one (1) 5-gallon container of used HID lamps, one (1) 5-gallon container of compact fluorescent lamps, and one (1) 5-gallon container of used batteries. Each box/container was closed, labeled, and dated. February 2, 2016 was the oldest date observed on a container. Cleanlites Recycling South, LLC picks up used lamps for recycling. Used batteries are picked up by Interstate.

**Used Oil:** Used oil is stored in the Air Compressor Room. During the inspection there was one (1) 55-gallon container of used oil in this area. The container was properly labeled. No spills or leaks were observed.

**Site Deficiencies:**

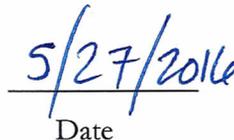
- None.

**Comments and Recommendations:**

- It is a reminder that weekly inspections must include inspecting hazardous waste storage containers for deterioration due to corrosion, per 40 CFR 265.174.
- The facility's continued commitment to maintaining a detailed and well ran hazardous waste program is appreciated.



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Date

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