

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

**Your Name:** Jenne Walker

**Facility ID Number:** NCR000007716

**Facility Name:** Compuchem

**Document Group:** Inspection/Investigation (I)

**Document Type:** I - Compliance Evaluation Inspection (CEI)

**Description for File (for CARA):** no violations

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**Author(s) of Document:** Jenne Walker

**Inspector ID #:** NC028

**Suborganization:** Eastern Region

**Comments for RCRAInfo:** no violations

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

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

**RCRA COMPLIANCE EVALUATION INSPECTION (CEI) REPORT**

**1. FACILITY INFORMATION:**

Name: Compuchem  
EPA ID Number: NCR 000 007 716  
Type of Facility: Large Quantity Generator (LQG)  
Facility Location: 501 Madison Avenue  
Cary, NC 27513  
Mailing Address: same  
County: Wake

**2. FACILITY CONTACT INFORMATION:** Mark Ross, Vice President – Compuchem  
Office: 919-379-4006; [markross@compuchemlabs.com](mailto:markross@compuchemlabs.com)

**3. SURVEY PARTICIPANTS:** Jonathan Hester, Lab Supervisor - Wearcheck  
Jenne S. Walker- NCDEQ

**4. DATE OF INSPECTION:** January 21, 2016

**5. PURPOSE OF EVALUATION:**

An unannounced site visit was conducted to evaluate the facility's compliance with the hazardous waste management regulations (also known as the Resource Conservation and Recovery Act, or RCRA) which are described at Title 40 of the Code of Federal Regulations (40 CFR) Parts 261, 262, 265, 268, 273 and 279.

**6. FACILITY DESCRIPTION:**

Compuchem is a commercial laboratory that analyzes various types of sample media (soil, water, & petroleum). Wearcheck is a separate in-house laboratory that specializes in various types of oil testing to determine wear/breakdown properties.

**General Information**

- 1. Legal owner of business and property:** Liberty Analytical Corporation
- 2. Land area:** 11 acres
- 3. Operating shifts:** Monday – Fridays, 7 am – 11pm
- 4. Number of employees:** ~ 45
- 5. Water supply & sanitary sewer services are provided by the** Town of Cary
- 6. Ground water monitoring wells on site:** None
- 7. Distance to closest off-site well:** Unknown
- 8. Distance to closest private residence:** < ¼ mile

7. **WASTE STREAMS:**

**Non-hazardous waste:** wastewater, used coolant

**Other types of Waste:**

universal waste - used batteries and used fluorescent lamps

Used oil (sent for recycling)

**Hazardous waste (HW):**

D001 – waste flammable liquids (methanol, hexane)

D001, F003, F005 – waste flammable liquid (hexane, acetone)

D002 – waste sodium hydroxide solution

D002 – waste corrosive liquids, acidic (hydrochloric acid, nitric acid)

F002, F003 – hazardous waste liquids (methylene chloride, hexane)

F002, F003, F005 – hazardous waste solid (purged soil)

F002, F003, F005- hazardous waste solid (sodium sulfate, glass, plant scraps)

F005, D038 – hazardous waste liquid (pyridine, barbituric acid)

8. **AREAS OF REVIEW AND INSPECTION**

**RECORDS REVIEW**

**Contingency Plan (CP)** – The facility’s contingency plan (rev. 7/19/2010) was reviewed and found to be satisfactory. The plan is expected to be revised in the future due to expected operational changes. Doug Bogart is the Primary Emergency Coordinator (EC) and Jonathan Hester is the Alternate EC. *Once the contingency plan is updated, be sure a copy is immediately distributed to local emergency authorities (fire, police and hospital).*

**Arrangements with Local ER Authorities:** Copies of letters sent to local emergency responders were reviewed and found to be satisfactory. Arrangements letters were sent by Certified Mail in July 2010 to Western Wake Medical Center, Rex Hospital, Wake County Emergency Management, Wake County Sherriff’s Department and Cary Fire Department.

**Emergency Preparedness** – The facility is equipped with fire extinguishers, pull alarms, fire suppression system (sprinklers) and communication equipment is available to staff at all times (cell phones). All equipment is routinely tested and appeared well-maintained.

**Inspection Records** (hazardous waste storage areas) – Inspection logs for the two hazardous waste storage areas were reviewed and found to be complete and in good order.

**Manifests** – Manifests from 2014 through December 2015 were reviewed and found to be complete and in good order.

**HW Transporters:** A & D Environmental Services, Inc. – NCD 986 232 221  
Bionomics – TND 982 116 493

**HW TSD's:** Perma Fix of Florida– FLD 980 711 071

**Biennial Report** – The facility’s 2011 Biennial Report was available for review. **Be sure to submit the facility’s Biennial Report to DWM by March 1, 2016.** The report should list hazardous waste generated on-site during Calendar Year 2015.

**Training Records** – Jonathan Hester and Jim Feldhaus attended the May 7, 2015 DWM LQG training class in Raleigh. Annual RCRA training was provided to on-site staff on July 23, 2015. Training records were well organized and appeared satisfactory.

**Job Descriptions** – Job descriptions were reviewed and found to be satisfactory.

## **PHYSICAL INSPECTION/FACILITY WALK-THROUGH**

**Satellite Accumulation Areas (SAAs):** The following containers of hazardous waste were observed accumulating onsite:

**Inorganic Metals Lab** – multiple small containers of waste mixed acids and two small containers of 019 waste;

**Wet Chemistry Lab** – Two 5-gallon containers of hazardous waste and one 55-gallon container of 019 waste.

**Volatiles Lab** – Three small containers of hazardous waste (this laboratory is in the process of being decommissioned in the near future);

**HPLC Lab** – One 5-gallon container of hazardous waste;

**Semi-Volatiles GC Lab** – One 55-gallon container of solvent vials and one 2-gallon safety can of flammable liquid;

**Extractions** – One 55-gallon drum (with funnel) of mixed acids, one 55-gallon drum of waste sodium hydroxide, one 55-gallon drum of 019 waste (water & solvent), and one 55-gallon container of plant scraps (floor sweepings).

**Receiving** – One 55-gallon drum of purge water, one 55-gallon drum of purged soil and one 55-gallon drum of quarantined soil were stored near the walk-in cold storage; one 1-quart jar of '019 waste' was observed on the shelf over the lab bench.

**WearCheck (Oils analysis) Lab** – The following waste containers were observed in the Wearcheck lab: One 4 Liter container of waste acid/oil was under a fume hood; one 2-gallon safety can of waste flammable liquid and one 55-gallon drum (acid/oil mix) were observed. One 55-gallon Flammable liquid was observed in the TAN room accumulating prior to onsite distillation. Three 10-gallon containers of excluded solvent contaminated rags (to be laundered) were observed; One 55-gallon drum of heptane to be recycled on-site; and one 5-gallon can of flammable liquid.

**Solvent Distillation Room** – One 55-gallon drum of still bottoms (flammable solids) was observed.

All hazardous waste containers in satellite accumulation were observed to be closed, clean and properly labeled with less than 55 gallons in each SAA.

**Less than 90-Day Hazardous Waste (HW) Storage Areas (x2):** Two HW storage areas are located on-site. The following observations were made during the inspection:

**Indoor HW Storage Area** – Seven 55-gallon drums of hazardous waste were observed to be closed, clean, labeled with the words ‘hazardous waste’ and marked with an accumulation start date of less than 90 days.

**Outside HW Storage Area** – The “outside HW Storage Area” is located in a small separate building. At the time of the inspection, approximately seventeen 55-gallon drums of HW were in storage.

The hazardous waste containers observed in storage were closed, in good condition, labeled with the words ‘hazardous waste’, marked with accumulation start date and appropriate aisle space was maintained.

**Universal Waste** – Used fluorescent lamps and used batteries may be generated on-site. No used lamps containing mercury were stored on-site at the time of the inspection. One 5-gallon container of used batteries was stored in closed bucket near the side exit doors. Records were available to document the last universal waste shipment in November 2015.

**Used Oil** – One 500-gallon tank labeled ‘used oil’ was located outside and behind the building covered by a shed roof. One 55-gallon container of non-regulated used coolant was observed in the indoor HW Storage Area.

**8. WASTE MINIMIZATION:**

The facility has a written waste minimization plan that is reviewed annually (last updated on December 13, 2010). A solvent distillation system was installed on-site in 2009. This unit has significantly reduced the quantity of hazardous waste generated at the facility. The facility will be reducing operations in the future which is expected to further reduce the amount of waste generated.

The facility previously shipped used methylene chloride generated in the GPC Room to Parts Cleaning Technologies for re-use/continued use; however, as of January 2016, Compuchem is in the process of securing a new continued use program to accept this material for continued use. *Ensure that the required documentation is maintained on-site and that this material is not speculatively accumulated.*

**9. CONCLUSION:**

Thank you for your cooperation and assistance during the inspection. Please contact me at (919) 707-8224 or at [jenne.walker@ncdenr.gov](mailto:jenne.walker@ncdenr.gov) if you have any questions about this report or maintaining compliance with the hazardous waste management (RCRA) regulations.



Jenne S. Walker

Environmental Senior Specialist, NCDEQ

signed February 12, 2016