

726302

Memorandum

Florida Department of Environmental Protection

TO: Mike Fitzsimmons, Waste Program Administrator
Northeast District

MS

FROM: Teresa Boeshaghi, Environmental Specialist II
Site Screening Superfund Subsection
Bureau of Waste Cleanup

DATE: May 1, 2003

SUBJECT: Prescreening Evaluation Report for Virginia Carolina Chemical Company

Please find enclosed a copy of the Prescreening Evaluation Report for the above referenced site. The site is recommended for further CERCLA action. If you have any questions please contact me at 245-8927.

cc: reading file

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NORTHEAST DISTRICT
JACKSONVILLE, FL

2003 MAY - 8 P 1:50

STATE OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL
PROTECTION

PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer: Teresa Kinner-Booeshaghi /Environmental Specialist 4/20/03
 (Name/Title) (Date)
2600 Blair Stone Road
Tallahassee, FL 32399 (850) 245-8989
 (Address) (Phone)
Teresa.Kinner@dep.state.fl.us
 (E-Mail Address)

Site Name: Virginia-Carolina Chemical Company

Previous Names (if any): _____

Site Location: 2700 Buckman Street
 (Street)
Jacksonville, FL 32206
 (City) (ST) (Zip)

Latitude: N 30° 21' 19 " **Longitude:** W 81° 37' 60 "

Complete the following checklist. If "yes" is marked, please explain below.

	YES	NO
1. Does the site already appear in CERCLIS?		X
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?		X
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?		X
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?		X
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?		X
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?		X
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?		X
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance releases have occurred, EPA approved risk assessment completed)?		X

Please explain all "yes" answer(s), attach additional sheets if necessary: _____

Site Determination:

- ☒ Enter the site into CERCLIS. Further assessment is recommended (explain below).
- ☐ The site is not recommended for placement into CERCLIS (explain below).

DECISION/DISCUSSION/RATIONALE:

The following site was discovered through historical records searches.

The site is located at 2700 Buckman Street in Duval County, Jacksonville, Florida. It is located at a latitude of N 30° 21' 19" and longitude of W 81° 37' 60". The site is the former location of Virginia-Carolina Chemical Company. City directories first reveal the presence of Virginia-Carolina Chemical Company in 1928. However, it appears there was a filing with the Division of Corporations in 1925. According to City directories the facility was in operation until 1965, appearing with the name Chemical Company Fertilizers. No records of operation were found after that time. Records of specific operations performed by Virginia-Carolina Chemical Company are unavailable. However, typical operational procedures followed by chemical fertilizer manufacturers during the early part of the twentieth century are well known. In general, superphosphate ($\text{CaH}_4(\text{PO}_4)_2$), a principal ingredient of chemical fertilizer, was extracted from phosphate ore by treatment with sulfuric acid. The sulfuric acid was commonly produced via the lead chamber method, which involved roasting elemental sulfur or pyrite to yield sulfur dioxide. The sulfur dioxide was then mixed with air, steam and nitric oxide catalysts, producing sulfuric acid. Transport of bulk material (e.g., fuel, phosphate ore, elemental sulfur or pyrite) was most likely facilitated by railroad spurs, which ran on the southern portion of the property. The proximity of the facility to the St. Johns River, suggests that bulk shipments may have been transported by barge. The wastestream developed by the production of superphosphate comprised a slurry of gypsum in sulfuric/phosphoric acid. Other contaminants associated with this waste included: orthophosphate, fluoride, ammonium, lead, arsenic, copper, nickel, iron, cadmium, chromium, cobalt, antimony, vanadium, platinum, selenium, gold, polonium-210, radon-226 and gross alpha.

According to FDEP's population TIGER Database approximately 50,928 people live within four miles of the site. FDEP's Potable Well System Database, reports that there are a relatively large number of community wells, and one private well within four miles of the site. Florida Natural Areas Inventory reveals several manatee aggregation sites nearby. Several rare species including the Least Tern, Southern Weasel, Gopher Frog and Spotted Turtle are also located within four miles of the site.

Several persistent and toxic contaminants have been associated with the chemical fertilizer industry. No samples of on-site material are known to have been collected. Wells located within four miles of the site provide potable water to a large population. Considering that potential deposits of process-related contaminants could persist in subsurface soils and be released to shallow groundwater, this site is recommended for inclusion into CERCLIS, and for completion of a Preliminary Assessment.

Regional EPA Reviewer:

Print Name/Signature

Date

State Agency/Tribe:Teresa Booeshaghi /
Print Name/Signature

Date

WINDSHIELD SURVEY FORM

Site Name: VIRGINIA CAROLINA CHEMICAL COMPANY (FORMER)Surveyed by: Jay KochCorrect Address: 2700 Buckman StreetDate: 3 / 27 / 03Jacksonville, FL

FLD#

Type of business/industry: Currently is DANA TANK CONTAINER, INC.Phone# 850-245-8995Directions to the Site: West side of Buckman Street between 18th St. and 17th St. (now railroad tracks)

1. ON-SITE OBSERVATION:

- a. Is the site active/abandoned? Active
- b. Access restricted? How? Yes. Fenced with barbed wire
- c. Posted signs No Trespassing
- d. Buildings (How many) One office trailer.
- e. Sheds (How many) None One. Next to office trailer.
- f. Storage Containers:
 - Storage Tanks (Size; quantity; location; above/below ground) Many large cylindrical tanks. 10,000 gal - 20,000 gal
 - Drums (Covered/uncovered; on/off the ground; condition; number; labels) No.
 - Berms (Material; condition) No.
- g. Impoundments/Pits/Ponds No
- h. Piles on ground (Material; covered/uncovered) Tires (5-10 next to shed)
- i. Wells (Monitoring/drinking) Unknown
- j. Drainage Ditches/Pipes No
- k. Surface water (Type) No
- k. Soil discoloration Unknown
- l. Spills (Describe) Unknown
- m. Air stacks/Air emissions/Odor No
- n. Flora (Describe) Heavily wooded on the south side and SW corner. Few trees and bushes along the fence line on the N side.
- o. Fauna (Describe)
- p. Other

OFF-SITE OBSERVATION:

- a. Surface water & Storm drainage route
- b. Drainage ditches No
- c. Sewer system/Manhole
- d. Spills (Describe)
- e. Leachate
- f. Flora (Describe)
- g. Fauna (Describe)
- h. Nearby school & day care center No
- i. Nearby gas station (Name/address) No
- j. Surrounding Community (Industrial; Commercial; Residential; Recreational; Agriculture...) Industrial (railroad tracks on south side of property), Recreational (baseball field) and Residential (houses on north side of property)
- k. Nearest residence (Address)
- l. Other Baseball field on west side of property. Church on the NE corner of property. Houses on north side of property. Railroad tracks on south side of property.

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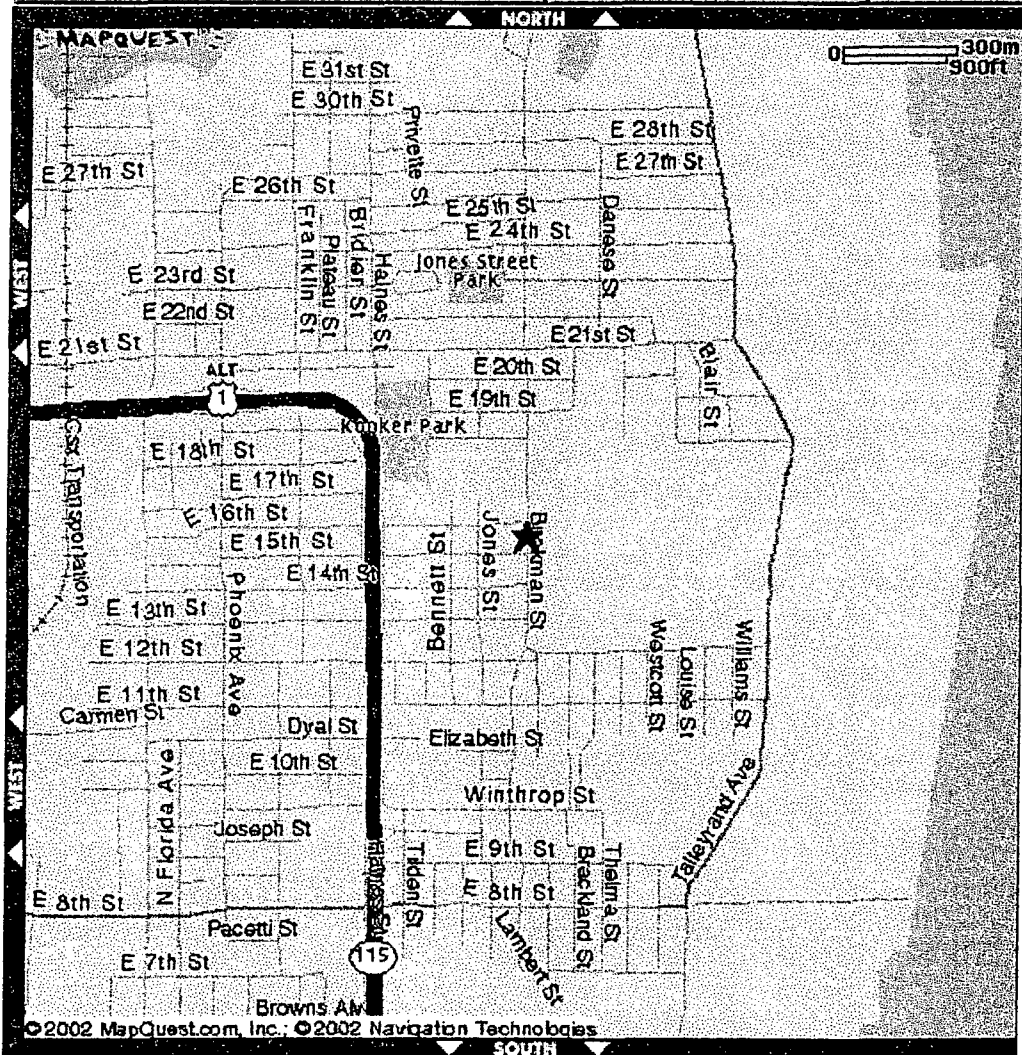
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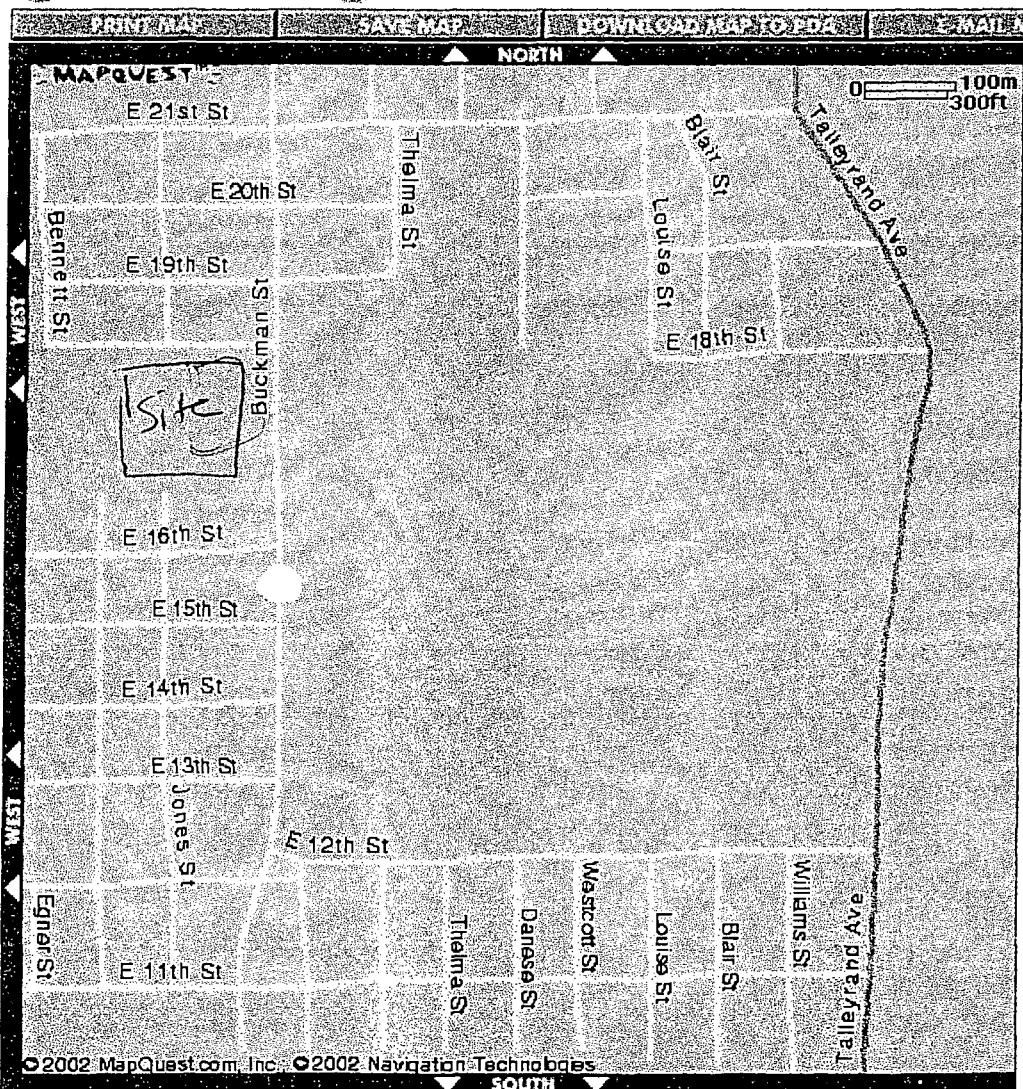
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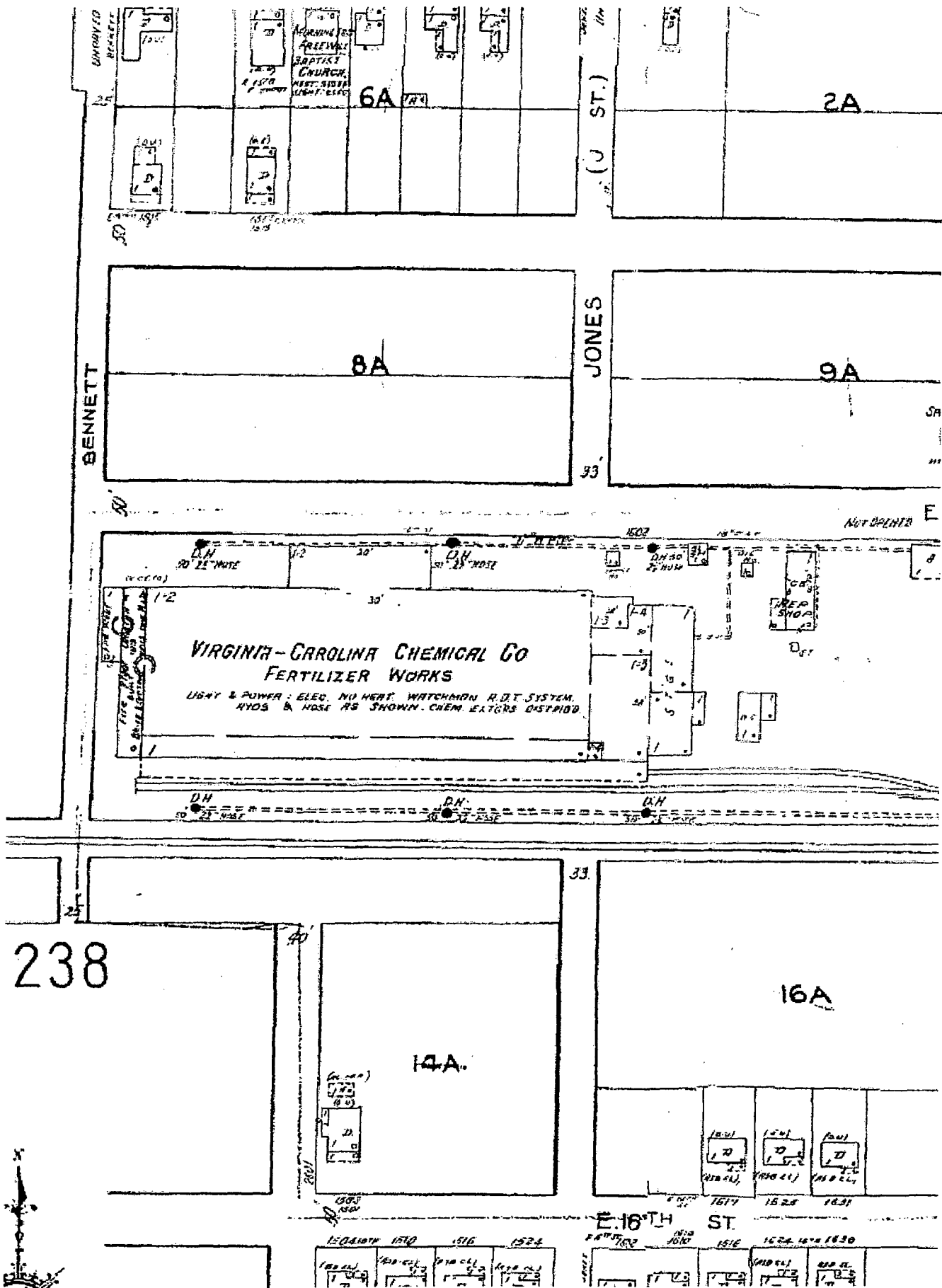


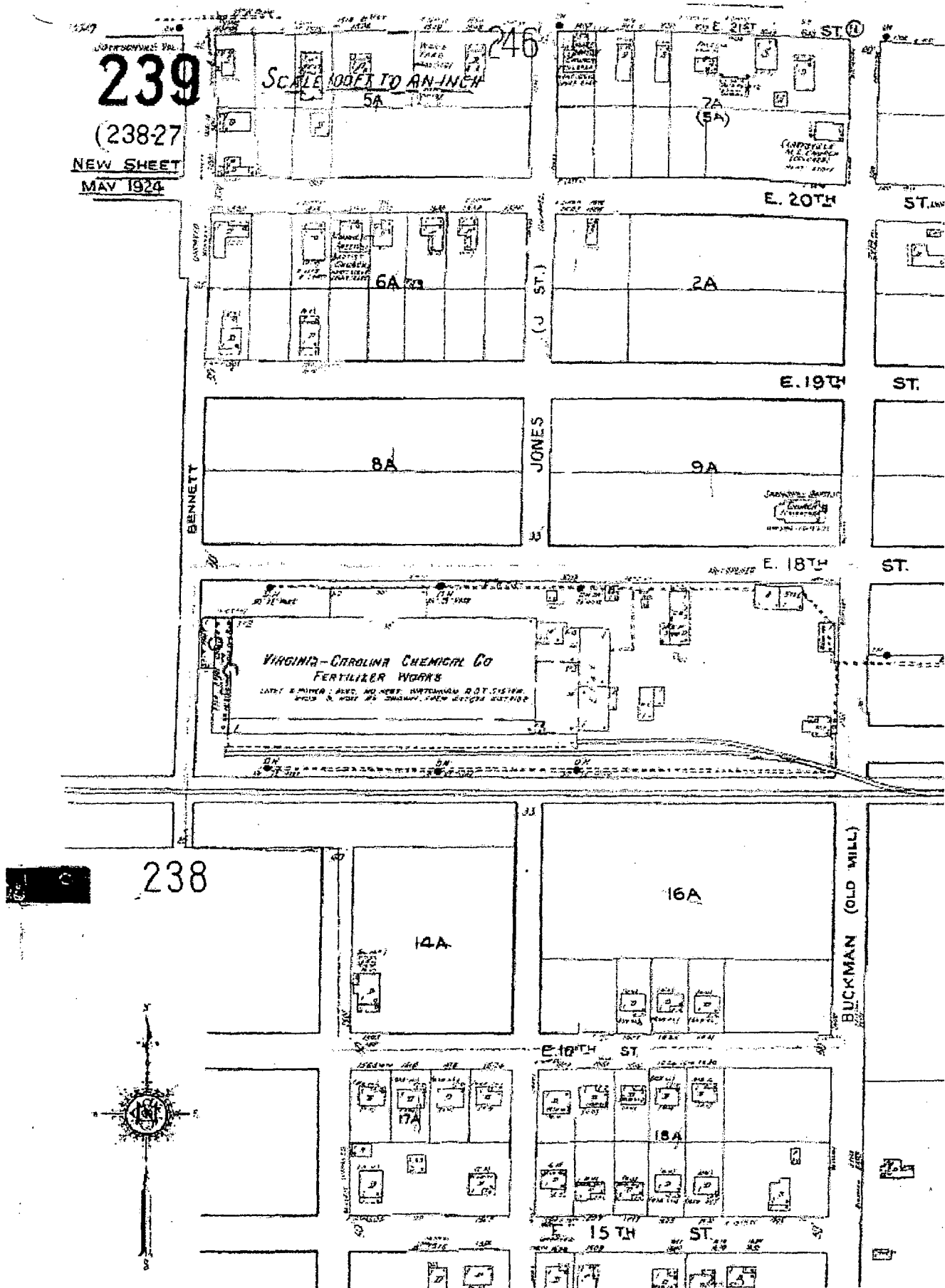
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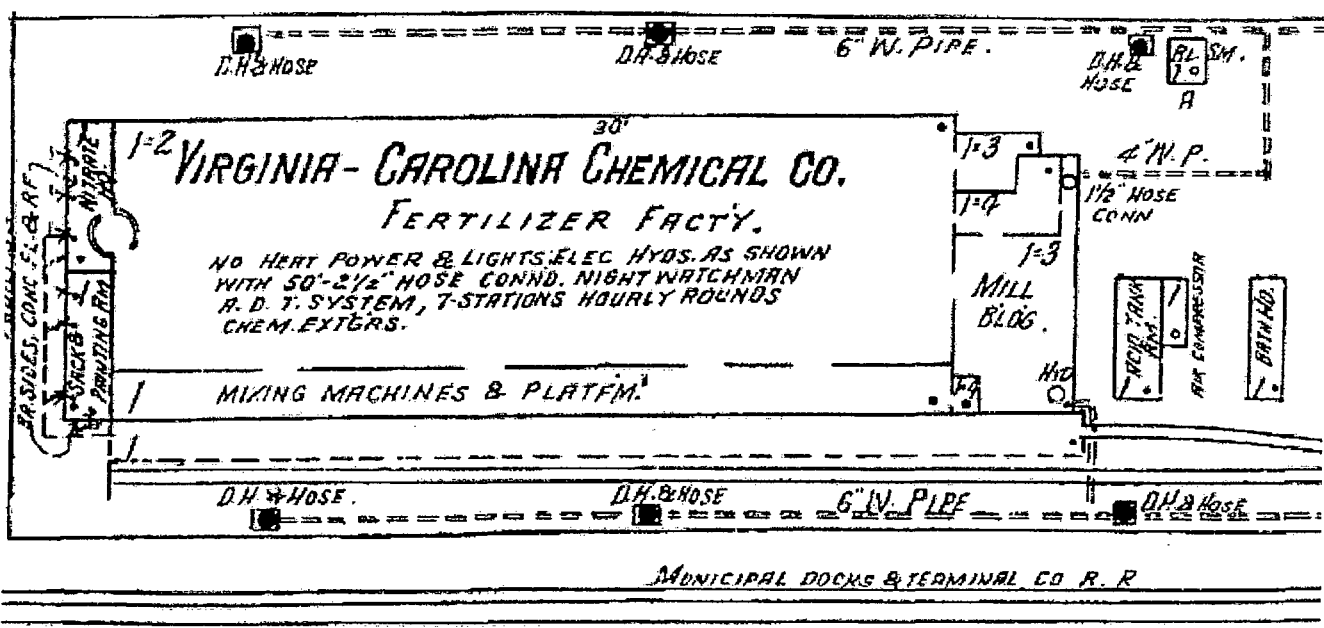
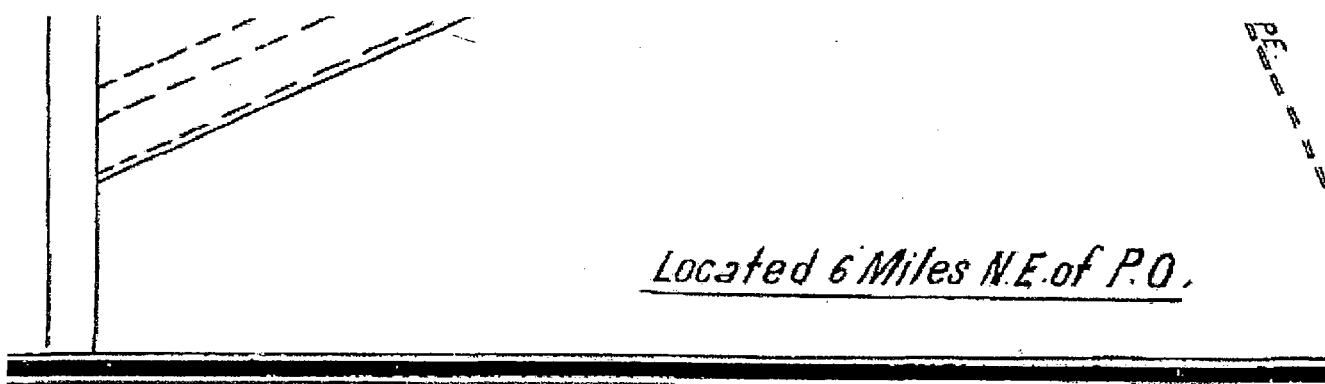


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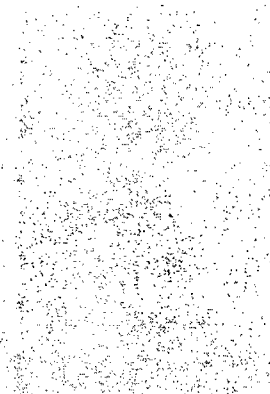
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