

INACTIVE SITES RANKING SYSTEM  
SUMMARY SHEET

Site Name: 319 South West Street

Location: 319 South West Street, Raleigh, Wake County, NC

ID Number: NONCD0002558

Ranked By: Sue Robbins Date: 4/28/16 - 5/18/16

Reviewed By: Dave Brown Date: DLB 5/24/16

Site Description/Comments:

Former small scale furniture builder located in the warehouse section of downtown Raleigh, NC. Dry cleaning related products were historically warehoused at the subject site, a two-story brick warehouse. Tetrachloroethylene, benzo(a)pyrene, benzo(a)anthracene, and benzo(b) fluoranthene were detected in soils above screening levels. Groundwater was not sampled. Site executed a Brownfield's Agreement and is razing the old building and constructing a five story office building.

Route Scores: GW = 51.21 SW = 37.25 A = 0 P = 12.5

Total Score:  $\frac{((51.21)^2 + (37.25)^2 + (0)^2 + (12.5)^2)^{1/2}}{2} = \underline{\underline{32.27}}$

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# I. GROUND WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Choose One)	Score
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**A. Route Characteristics**

1. Depth to Water Table	0 2 4 6 8 10	4
2. Net Precipitation	0 1 2 3	2
3. Hydraulic Conductivity	0 1 2 3	2
4. Physical State	0 1 2 3	3

Total Route Characteristics Score	11
B. Containment	3

**C. Waste Characteristics**

1. Toxicity/Persistence	0 3 6 9 12 15 18	18
2. Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	5

Total Waste Characteristics Score	23
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**Ground Water Route of Migration Score**

The Ground Water Route of Migration Score is obtained by multiplying lines A, B, and C and dividing this by 14.82 to give a score between 0 and 100.

Total Ground Water Route of Migration Score: 51.21

## II. SURFACE WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Choose One)	Score
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### A. Route Characteristics

1. Facility Slope and Intervening Terrain	0 1 2 3	0
2. 1-yr., 24-hour Rainfall	0 1 2 3	1
3. Distance to Nearest Surface Water	0 2 4 6 8 10	4
4. Physical State	0 1 2 3	3

Total Route Characteristics Score		8
B. Containment	0 1 2 3	3

### C. Waste Characteristics

1. Toxicity/Persistence	0 3 6 9 12 15 18	18
2. Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	5

Total Waste Characteristics Score		23
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### Surface Water Route of Migration Score

The Surface Water Route of Migration Score is obtained by multiplying lines A, B, and C and dividing this by 14.82 to give a score between 0 and 100.

Total Surface Water Route of Migration Score: 37.25

IV. DIRECT CONTACT ROUTE SCORE SHEET

Rating Factor	Assigned Value (Choose One)	Score
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A. Residential Population

1. Toxicity 0 3 6 9

2. Targets

a) High Risk Population  
(count x 8, max. 100) \_\_\_\_\_

b) Total Resident Population  
(count x 2, max. 100) \_\_\_\_\_

c) Sensitive Environment 0 10 15 20 25

Resident Target Score  
(lines 2a + 2b + 2c, max. 100) \_\_\_\_\_

Total Residential Population Score	
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B. Nearby Population

1. Likelihood of Exposure  
(matrix score) 0.25

a) Area of Contamination 0 25 50 75 100 25

b) Accessibility/  
Frequency of Use 5 25 50 75 100 75

2. Toxicity 0 3 6 9 9

3. Targets (max. 100) 100

Total Nearby Population Score	225
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Overall Population Exposure Score

The Overall Population Exposure Score is determined by adding lines A and B and dividing this by 18 to give a score between 0 and 100.

Total Population Exposure Route of Migration Score: 12.5

### III. AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Choose One)	Score
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**A. Waste Characteristics**

1. Reactivity and Incompatibility	0 1 2 3	<input style="width: 80%;" type="text"/>
2. Toxicity	0 3 6 9	<input style="width: 80%;" type="text"/>
3. Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	<input style="width: 80%;" type="text"/>

Total Waste Characteristics Score	
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**B. Targets**

1. Population Within a 4-Mile Radius	0 9 12 15 18 21 24 27 30	<input style="width: 80%;" type="text"/>
2. Distance to Sensitive Environment	0 2 4 6	<input style="width: 80%;" type="text"/>
3. Land Use	0 1 2 3	<input style="width: 80%;" type="text"/>

Total Targets Score	
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**Air Route of Migration Score**

The Air Route of Migration Score is obtained by multiplying lines A and B and dividing this by 7.80 to give a score between 0 and 100.

Total Air Route of Migration Score:           0

DOCUMENTATION RECORDS  
FOR  
STATE HAZARD RANKING SYSTEM

INSTRUCTIONS: Briefly summarize the information you used to assign a score to each factor and document the source of the information and/or the rationale for each score.

Facility Name: 319 South West Street

ID Number: NONCD0002558

Location: 319 South West Street, Raleigh, Wake County, NC

Date Scored: 4/28/16 - 5/18/16

Person Scoring: Sue Robbins

Factors Not Scored: Air Route and Residential Population

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Comments:

References:

1. Superfund Section Files.
2. North Carolina Atlas , University of NC Press, Chapel Hill, NC, 1975.
3. Rainfall Frequency Atlas of the US, Technical Paper 40, US Department of Commerce, Washington, DC, 1963.
4. 2000 Census of Population and Housing: Summary Population and Housing Characteristics: North Carolina, US Department of Commerce. <http://quickfacts.census.gov/qfd/>.
5. Dangerous Properties of Industrial Materials , N. Irving Sax, Van Reinhold Company, Inc., 1984.
6. 40 CFR 300 , Appendix A, July 1, 1988.
- 7.
- 8.

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## GROUND WATER ROUTE

	Reference
A. Route Characteristics:	
1. Depth to Water Table: 4: piedmont	( 2 )
2. Net Precipitation: 2: $48 - 42 = 6$ inches	( 2 )
3. Hydraulic Conductivity of Unsaturated Zone: piedmont	( 2 )
4. Physical State: liquid dry cleaning fluids	( 1,5 )
B. Containment: none	( 1 )
C. Waste Characteristics:	
1. Toxicity/Persistence: 18: PCE	( 1,5 )
2. Hazardous Waste Quantity: 5: Unknown	( 1 )

## SURFACE WATER ROUTE

A. Route Characteristics:	Reference
1. Facility Slope and Intervening Terrain: 0: facility slope $10\text{ft}/150\text{ft}=.007$ and intervening terrain $55\text{ft}/2,250\text{ft}=.02$ <i>0.07</i>	( 1 )
2. One-year 24-hour Rainfall: 1: 3 inches	( 3 )
3. Distance to Nearest Surface Water/Name: 4: 2,250 ft to Rocky Branch	( 1 )
4. Physical State: 3: liquid	( 1,5 )
B. Containment: 3: none	( 1 )
C. Waste Characteristics: 1. Toxicity/Persistence: 18: PCE	( 1,5 )
2. Hazardous Waste Quantity: 5: Unknown	( 1 )

AIR ROUTE

Reference

A. Waste Characteristics: N/A

1. Reactivity and Incompatibility:

( )

2. Toxicity:

( )

3. Hazardous Waste Quantity:

( )

B. Targets:

1. Population within 4-mile Radius/Distance from Hazardous Substance:

( )

2. Distance to Sensitive Environment:

( )

3. Land Use:

( )

POPULATION EXPOSURE ROUTE

- A. Residential Population: N/A Reference
1. Toxicity: ( )
  2. Targets:
    - a. High Risk Population: ( )
    - b. Total Resident Population: ( )
    - c. Sensitive Environment: ( )
- B. Nearby Population:
1. Likelihood of Exposure Score: <sup>0.25</sup>
    - a. Area of Contamination:  
25: 0.28 acres ( 1 )
    - b. Accessibility/Frequency of Use:  
75: no continuous barrier ( 1 )
  2. Toxicity:  
9: PCE ( 1,5 )
  3. Targets: <sup>221.8</sup>  $0.1 (2,218) + 0.05 (6,655) = 555 = 100$ 
    - a. 0 - 1/2 mile:  $3.14 (0.5^2) \times 2,826 \text{ people/sq.mi} = 2,218$  (4)
    - b. 1/2 - 1 mile:  $3.14 (1^2 - 0.5^2) \times 2,826 \text{ people/sq.mi} = 6,655$  (4)
- Notes: Used people/sq.mi. for Raleigh, NC.*