

INACTIVE SITES RANKING SYSTEM
SUMMARY SHEET

Site Name: CTS of Asheville, Inc.
Location: Skyland, Buncombe County
EPA ID: NCD 003 149 556 State ID: SIS 110 100 175
Ranked By: Hanna Assefa Date: 11/18/93
Reviewed By: Charlotte V. Jesneck Date: 11/30/93

Site Description/Comments:

1964 - 1987 Electroplating facility

1987 - 1990 Inactive

1990 - Present Manufacturer of corn burning stoves

The site is owned by Caldwell Banker and leased to Dove Energy Systems. There are no records of spills or on-site disposal. The site is partially fenced and partially bordered by a ridge.

Sampling has revealed the presence of the following hazardous substances:

Soil: Cadmium, silver, vanadium, barium, and zinc greater than at least 3 X background; estimated levels of ethyl dimethyl benzene, tetramethyl benzene diethyl benzene, phtalic anhydride, methyl benzene sulfonamide.

Surface Water: Vinyl chloride, trichloroethylene, 1,2-dichloroethane, cadmium, copper, nickel, silver and zinc detected.

Route Scores: (S S S S)
GW = 51.21 SW = 65.18 A = 0 P = 26

Total Score: 43.44

Site Name: CTS of Asheville, Inc.

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I. GROUND WATER ROUTE WORK SHEET

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

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

Total Route Characteristics Score	11
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B. Containment	0 1 2 (3)	3
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C. Waste Characteristics

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

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 (Circle One)	Score
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A. Route Characteristics

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

Total Route Characteristics Score	14
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B. Containment	0 1 2 (3)	3
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C. Waste Characteristics

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

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: 65.18

III. AIR ROUTE WORK SHEET

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

- | | |
|-----------------------------------|-------------------|
| 1. Reactivity and Incompatibility | 0 1 2 3 |
| 2. Toxicity | 0 3 6 9 |
| 3. Hazardous Waste Quantity | 0 1 2 3 4 5 6 7 8 |

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 |
| 2. Distance to Sensitive Environment | 0 2 4 6 |
| 3. Land Use | 0 1 2 3 |

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: Not Scored.

IV. DIRECT CONTACT ROUTE SCORE SHEET

Rating Factor	Assigned Value (Circle 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) | 0 |
| b) Total Resident Population
(count x 2, max. 100) | 0 |
| c) Sensitive Environment | 0 10 15 20 25 |

Resident Target Score
(lines 2a + 2b + 2c, max. 100) 0

Total Residential Population Score	0
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B. Nearby Population

- | | |
|---|-------------------------|
| 1. Likelihood of Exposure
(matrix score) | _____ |
| a) Area of Contamination | 0 25 50 75 (100) |
| b) Accessibility/
Frequency of Use | 5 25 50 (75) 100 |
| 2. Toxicity | 0 3 6 (9) |
| 3. Targets (max. 100) | 52 |

Total Nearby Population Score	468
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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 Score 26

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: CTS of Asheville, Inc.

Site ID Numbers: SIS 110 100 175 NCD 003 149 556

Location: Skyland, Buncombe County

Date Scored: 11/18/93

Person Scoring: Hanna Assefa

Factors Not Scored: Air

Comments:

References:

1. CTS of Asheville, Inc. Phase II, Screening Site Inspection Report, NUS Corporation, February 1991.
2. United States Department, 1991, County and City Data Book, US Bureau of the Census, US Government Printing Office.

GROUND WATER ROUTE

A. Route Characteristics:

1. Depth to Water Table:

4: Piedmont (1).

2. Net Precipitation:

3: 17 inches (1).

3. Hydraulic Conductivity of Unsaturated Zone:

1: 10^{-4} - 10^{-6} (1).

4. Physical State:

3: Unknown - liquid or sludge assumed (1).

B. Containment:

3: None (1).

C. Waste Characteristics:

1. Toxicity/Persistence:

18: Toxicity = 3 - vinyl chloride, cadmium; Persistence = 3 - vinyl chloride, cadmium (1).

2. Hazardous Waste Quantity:

5: Unknown (1).

SURFACE WATER ROUTE

A. Route Characteristics:

1. Facility Slope and Intervening Terrain:

2: Facility slope = 10%; intervening terrain = ? (1).

2. One-year 24-hour Rainfall:

1: 3 inches (1).

3. Distance to Nearest Surface Water/Name:

8: Contamination in unnamed creek (1).

4. Physical State:

3: Unknown, assume liquid or sludge (1).

B. Containment:

3: None (1).

C. Waste Characteristics:

1. Toxicity/Persistence:

18: Toxicity = 3 - vinyl chloride, cadmium; persistence = 3 - vinyl chloride, cadmium (1).

2. Hazardous Waste Quantity:

5: Unknown (1).

AIR ROUTE

A. Waste Characteristics: **Not Scored.**

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:

1. Toxicity:

9: $3 \times 3 = 9$ (1).

2. Targets:

a. High Risk Population:

0

b. Total Resident Population:

0

c. Sensitive Environment:

0: No sensitive environments on site or within 4 miles (1).

B. Nearby Population:

1. Likelihood of Exposure Score:

a. Area of Contamination:

100: Unknown; site = 57 acres (1).

b. Accessibility/Frequency of Use:

75: Site is operational - only partially fenced - see summary on front (1).

2. Toxicity:

9: Toxicity: Cadmium.

3. Targets:

a. 0 - 1/2 mile: $.785 \text{ sq. mi.} \times 266 \text{ people/sq. mi.} = 209 \text{ people}$

$$(209)(.1) = 20.9$$

b. 1/2 - 1 mile: $[(3.14)(1)^2 (266 \text{ people/sq. mi.})] - 209 = 626 \text{ people}$

$$(626)(.05) = 31.3$$

$$31 + 21 = 52 \text{ targets}$$

POPULATION EXPOSURE ROUTE

A. Residential Population:

1. Toxicity:

9: $3 \times 3 = 9$ (1).

2. Targets:

a. High Risk Population:

0

b. Total Resident Population:

0

c. Sensitive Environment:

0: No sensitive environments on site or within 4 miles (1).

B. Nearby Population:

1. Likelihood of Exposure Score:

a. Area of Contamination:

100: Unknown; site = 57 acres (1).

b. Accessibility/Frequency of Use:

75: Site is operational - only partially fenced - see summary on front (1).

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$$31 + 21 = 52 \text{ targets}$$