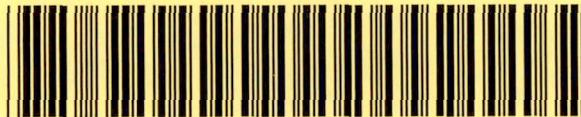


\*379IHSSF2096\*



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Site Name RENROH

DocumentType Ranking (RANK)

RptSegment 1

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Division WASTE MANAGEMENT

Section SUPERFUND

Program IHS (IHS)

DocCat FACILITY

**INACTIVE SITES RANKING SYSTEM  
SUMMARY SHEET**

Site Name:	Renroh		
Location:	Holly Ridge, Onslow County		
EPA ID:	NCD 980 728 687	State ID:	SIS 240 100 826
Ranked By:	Sean M. McLean		Date: April 27, 1998
Reviewed By:	Charlotte Jesneck		Date: May 27, 1998

**Site Description/Comments:**

This site was used as a former warehouse for storing drums that contained 2,4 dinitrophenol. In 1977, the roof of the warehouse caved in and some of the 2,000 drums broke open. In 1980, these drums were removed and sent to various places. Soil samples taken at points surrounding the site during a screening site investigation were not found to be contaminated. However, no samples were taken from inside of the fenced perimeter.

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Route Scores:	S	S	S	S
	GW = 52.63	SW = 32.39	A = 0	P = 1.95

Total Score: 
$$\frac{((52.63)^2 + (32.39)^2 + (0)^2 + (1.95)^2)^{1/2}}{2} = \underline{\underline{30.91}}$$

Site Name:	Renroh		
Ranked By:	Sean M. McLean	Date:	April 27, 1998
Reviewed By:	Charlotte Jesneck	Date:	May 27, 1998

### 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 <u>6</u> 8 10
2. Net Precipitation	0 1 2 <u>3</u>
3. Hydraulic Conductivity	0 1 2 <u>3</u>
4. Physical State	0 <u>1</u> 2 3

	Total Route Characteristics Score	13
B. Containment	0 1 2 <u>3</u>	3

#### C. Waste Characteristics

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

	Total Waste Characteristics Score	20
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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: 52.63

## 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       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

B. Containment	Total Route Characteristics Score	8
	0 1 2 <input checked="" type="radio"/> 3	3

### 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	20

### 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: 32.39

### 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	0
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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	0
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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

#### 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) \_\_\_\_\_
- 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) 0.1

- 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) 39

Total Nearby Population Score	
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35.1	
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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 1.95

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:	Renroh			
Site ID Numbers:	SIS	240 100 826	NCD	980 728 687
Location:	Holly Ridge, Onslow County			
Date Scored:	April 27, 1998			
Person Scoring:	Sean M. McLean			
Factors Not Scored:	Air Route and Residential Population			

Comments:

References:

- (1) "Screening Site Investigation: Renroh," NCDEHNR, Division of Solid Waste Management, Superfund Section, October, 1989.
- (2) North Carolina Atlas, University of NC Press, Chapel Hill, NC, 1975.
- (3) Dangerous Properties of Industrial Chemicals, 6th Ed., Sax, N. Irving, Van Nostrand Reinhold Co., Inc., New York, NY, 1984.
- (4) 40 CFR 300 (7/1/88).
- (5) Rainfall Frequency Atlas of the United States, Technical Paper 40, U.S. Department of Commerce, Washington, DC, 1963.
- (6) 1990 Census of Population and Housing: Summary Population and Housing Characteristics: North Carolina, U.S. Department of Commerce, 1990.

## GROUND WATER ROUTE

### A. Route Characteristics:

#### 1. Depth to Water Table:

6: Within 15 feet of the surface (1)

#### 2. Net Precipitation:

3: 64 Inches Precipitation - 42 Inches of Evaporation =  
22 Inches of Net Precipitation (1,2)

#### 3. Hydraulic Conductivity of Unsaturated Zone:

3: Coastal Plain (1)

#### 4. Physical State:

1: Unconsolidated Solid (1)

### B. Containment:

3: None (1)

### C. Waste Characteristics:

#### 1. Toxicity/Persistence:

15: 3/2 2,4 Dinitrophenol (1,3,4)

#### 2. Hazardous Waste Quantity:

5: Unknown (1)

## SURFACE WATER ROUTE

### A. Route Characteristics:

#### 1. Facility Slope and Intervening Terrain:

0: Facility Slope and Intervening Terrain < 3% (1)

#### 2. One-year 24-hour Rainfall:

3: 3.7 Inches (5)

#### 3. Distance to Nearest Surface Water/Name:

4: 3,400 Feet to Cypress Branch (1)

#### 4. Physical State:

1: Unconsolidated Solid (1)

### B. Containment:

3: None (1)

### C. Waste Characteristics:

#### 1. Toxicity/Persistence:

15: 3/2 2,4 Dinitrophenol (1,3,4)

#### 2. Hazardous Waste Quantity:

5: Unknown (1)

## AIR ROUTE

### A. Waste Characteristics:

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:

#### 2. Targets:

##### a. High Risk Population:

##### b. Total Resident Population:

##### c. Sensitive Environment:

### B. Nearby Population:

#### 1. Likelihood of Exposure Score: 0.1

##### a. Area of Contamination:

25: 0.3 Acres (size of concrete pad) (1)

##### b. Accessibility/Frequency of Use:

50: Fenced (1)

#### 2. Toxicity:

9: 3 x 3 (1,3)

#### 3. Targets: $(0.05)(460.17_p) + (0.1)(153.39_p) = 38.35 \rightarrow 39_{\text{people}}$ (6)

a. 0 - 1/2 mile:  $(3.14)(0.5^{\text{MI}})^2(195.4_p^{\text{MI2}}) = 153.39_{\text{people}}$

b. 1/2 - 1 mile:  $(3.14)[(1^{\text{MI}})^2 - (0.5^{\text{MI}})^2](195.4_p^{\text{MI2}}) = 460.17_{\text{people}}$