

370SERBSF10,624

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POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM

452

Department of Environment, Health, Natural Resources
 Division of Environmental Management
 GROUNDWATER SECTION

GW Contamination

Incident # 7254
 Date Incident Occurred
 or Leak Detected 11/19/91

INCIDENT DESCRIPTION

Incident Location/Name: SQUIGB - GLAXO KENLY PLANT

Address: 1000 SQUIGB DR

City/Town: KENLY County: JOHNSON Region: RALEIGH

Briefly Describe Incident: DURING THE ASSESSMENT METALS WERE FOUND IN GROUNDWATER AND SOILS AT PLANT.

POTENTIAL SOURCE OWNER-OPERATOR

Potential Source Owner-Operator: WILLIAM GLAXO (SQUIGB) Telephone: 609-921-5690
LAUEA G. LONG (GLAXO) 919-269-1592

Company: GLAXO Street Address: P.O. Box 1217

City: ZEBULON County: _____ State: N.C. Zip Code: 27597

OWNERSHIP
 0. N/A 1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State

OPERATION TYPE
 0. N/A 1. Public Service 2. Agricultural 3. Residential 4. Education./Relig. 5. Industrial 6. Commercial 7. Mining

POLLUTANTS INVOLVED

MATERIALS INVOLVED	AMOUNT LOST	AMOUNT RECOVERED
<u>ARSENIC, CHROMIUM, COPPER, LEAD</u>	<u>ABOVE 2L STANDARD</u>	
<u>NICKEL</u>		

SOURCE OF POLLUTION

PRIMARY SOURCE OF POLLUTION (Select one)	PRIMARY POLLUTANT TYPE (Select one)	LOCATION	SETTING
1. Intentional dump	1. Pesticide/herbicide	1. <u>Facility</u>	1. Residential
2. Pit, pond, lagoon	2. Radioactive waste	2. Railroad	2. <u>Industrial</u>
3. Leak-underground	3. Gasoline/diesel	3. Waterway	3. Urban
4. Spray irrigation	4. Heating oil	4. Pipeline	4. Rural
5. Land application	5. Other petroleum prod.	5. Dumpsite	
6. Animal feedlot	6. Sewage/septage	6. Highway	
7. Source unknown	7. Fertilizers	7. Residence	
8. Septic tank	8. Sludge	8. Other	
9. Sewer line	9. Solid waste leachate		
10. Stockpile	10. <u>Metals</u>		
11. Landfill	11. Other Inorganics		
12. <u>Spill surface</u>	12. Other organics		

Site Priority Ranking: 70

D.E.M. Regional Contact: ROBERT WAGON Signature: Robert Wagon Date: 3 MAR 92

IMPACT ON DRINKING WATER SUPPLIES

WELLS AFFECTED 1. YES 2. NO

NUMBER OF WELLS AFFECTED _____

Well(s) Contaminated: (Users Name)

1. _____
2. _____
3. _____
4. _____
5. _____

Circle Appropriate Responses

Lab Samples Taken By: 1. DEM 2. DHS 3. Responsible Party 4. Other 5. None

Samples Taken Include:

1. Groundwater 2. Soil

LOCATION OF INCIDENT

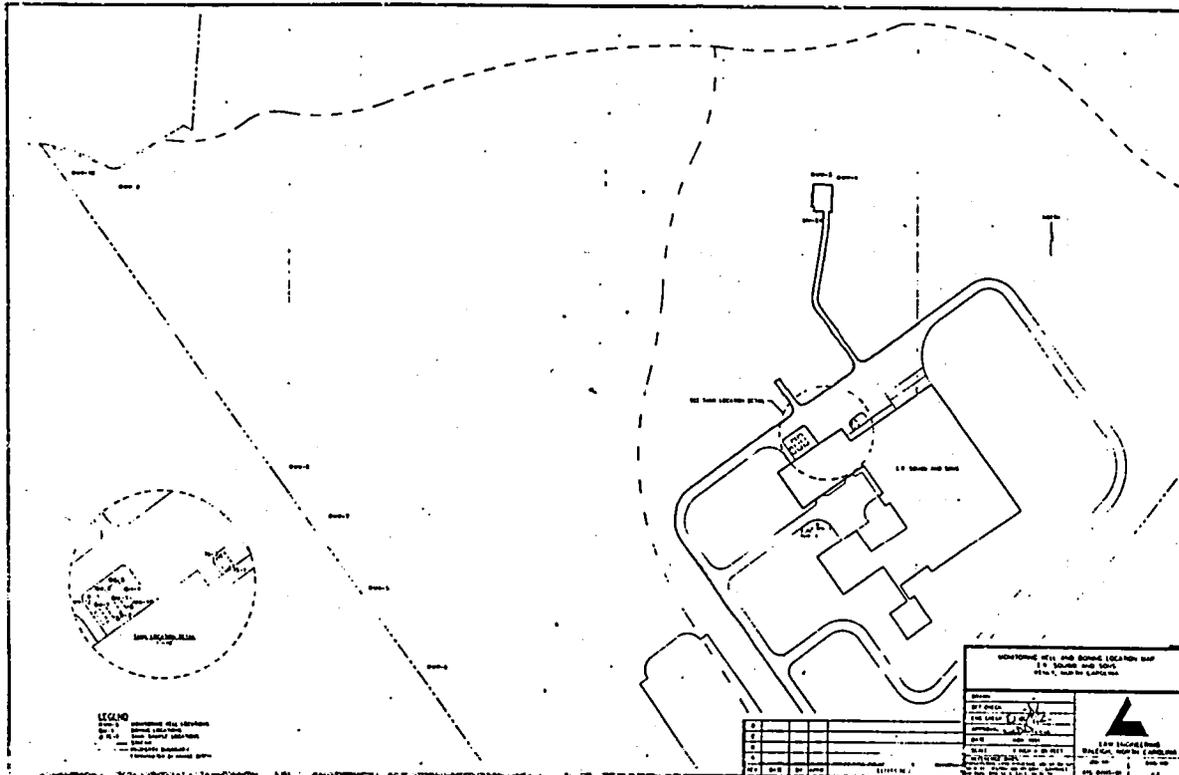
7 1/2 Min. Quad Name
KENLY WEST

Lat. : Deg : Min : Sec :
35° 35' 02"

Five Min. Quad Number
M 33

Long. : Deg : Min : Sec :
78° 08' 31"

Draw Sketch of Area or Attach Additional Maps



Incident Name: SQIBB / GLAXO Region/County: RALPH / JOHNSTON

Groundwater Incident File # _____ Ranking Performed by: R. WALLEN

Date: 3 MAR 92

**NORTH CAROLINA
GROUNDWATER CONTAMINATION INCIDENT MANAGEMENT
SITE PRIORITY RANKING SYSTEM**
(To be completed by Regional Office)

	<u>Points Awarded</u>
I. IMMEDIATE HAZARD ASSESSMENT	
A. Explosion - free product in confined areas or vapor phase product detected at or above 20% of the lower explosive limit; award 50 points total	_____
B. Fire - free product subject to ignition in exposed areas such as surface water impoundments, streams, excavations, etc.; award 50 points total	_____
II. EXPOSURE ASSESSMENT	
A. Contaminated Drinking Water Supplies	
1. Private, domestic water supply well containing substances in concentrations exceeding Class GA underground water quality standards; award 10 points per well	_____
2. Public or institutional water supply well containing substances in concentrations exceeding Class GA underground water quality standards; award 30 points per well	_____
3. Exceedances of Class WS-1 surface water quality standards as a result of groundwater discharge; award 20 points per surface water body impacted	_____
4. If a water supply well identified in items II.A.1 and II.A.2 cannot be replaced by an existing public water supply source requiring hook-up only; award additional 10 points per irreplaceable well	_____
B. Threat to Uncontaminated Drinking Water Supplies	
1. Private, domestic water supply well located within 1500 feet down gradient of contaminant source; award 10 points per well	_____
2. Public or institutional water supply well located within 1/2 mile downgradient of contaminant source; award 15 points per well	_____
3. Raw surface water intake for public water supply located within 1/2 mile downgradient of contaminant source; award 5 points per water supply system	_____
4. If any well identified in items II.B.1 and II.B.2 is located within 250 feet of contaminant source; award additional 20 points total	_____
C. Vapor Phase Exposure	
1. Product vapors detected in inhabitable building(s); award 30 points total	_____

Points Awarded

2. Product vapors detected in other confined areas (uninhabitable buildings, sewer lines, utility vaults, etc.); award 5 points total
-

III. CONTAMINANT HAZARD ASSESSMENT (chemical groups are categorized based on toxicity, mobility and persistence in the environment). Evaluate the most hazardous substances detected and select only one of the following:

- A. Award 30 points total if contaminants detected are identified with any of the following groups:

30

1. Aromatic (Benzene) Acids
2. Aromatic Hydrocarbons (Benzene Derivatives)
3. Sulfonated Hydrocarbons
4. Halogenated Hydrocarbons
5. Alkaloids
6. Anilines
7. Phenols
8. Aldehydes
9. Ketones
10. Organic Sulfur Compounds (Sulfides, Mercaptans)
11. Organometallic Compounds
12. Cyanides
13. Esters
14. Metal Salts, Including Heavy Metals

- B. Award 20 points total if contaminants detected are identified with any of the following groups:

1. Aliphatic (Fatty) Acids
2. Alcohols
3. Aliphatic Hydrocarbons (Petroleum Derivative)
4. Pyridines
5. Thiocyanides
6. Mineral and Metal Acids
7. Mineral and Metal Bases
8. Oxides
9. Sulfides

- C. Award 10 points total if contaminants detected are identified with any of the following groups:

1. Aliphatic Amines and Their Salts
2. Sugars and Cellulose
3. Carbon and Graphite

IV. SOURCE ASSESSMENT

- A. Free product thickness of $\geq 1/4$ inch detected on water table in observation or monitoring well; award 20 points total
-

- B. Contaminated Soil (select only one answer)

1. Soil saturated with product (saturation determined by release of free liquid upon compaction of a soil sample by hand pressure); award 10 points total
-

(cont.)

Points Awarded

2. Soil exhibiting organic vapor content above 100 ppm as measured by organic vapor or volatile organic detection equipment; award 5 points total

C. Uncontrolled or Unabated Primary Source (including dumpsites, stockpiles, lagoons, land applications, septic tanks, landfills, underground and above ground storage tanks, etc.)

1. Suspected or confirmed source remains in active use and continues to receive raw product, wastewater or solid waste; award 20 points per source

2. Active use of suspected or confirmed source has been discontinued or source was caused by a one-time release of product or waste, however, source continues to release product or contaminants into the environment; award 10 points per source

10

V. ENVIRONMENTAL VULNERABILITY ASSESSMENT

A. Vertical Contaminant Migration - Literature or well logs indicate that no confining layer is present above bedrock or above twenty feet below land surface; award 10 points total

10

B. Horizontal Contaminant Migration - Data or observations indicate that no discharge points or aquifer discontinuities exist between the source and the nearest downgradient drinking water supply; award 10 points total

10

C. Hydraulic Gradient Is Determined by (select only one answer):

1. Calculations based on groundwater level measurements; award 10 points total

2. Observation of significant recharge/discharge features in the vicinity of contaminant source and local topographic features; award 5 points total

3. Observation of local topographic features only; award 0 points

D. Existing Groundwater Quality

1. Analytical test(s) performed on groundwater sample(s) obtained from site confirm presence of substances in concentrations exceeding Class GA underground water quality standards; award 10 points total

10

2. Source(s) identified in Section IV constitute the only known source(s) of contamination resulting in exposure or potential exposure identified in Section II; award 10 points total

TOTAL POINTS AWARDED

70