

1.18.2

**FIELD INVESTIGATIONS OF
UNCONTROLLED HAZARDOUS WASTE SITES**

FIT PROJECT

**TASK REPORT TO THE
ENVIRONMENTAL PROTECTION AGENCY
CONTRACT NO. 68-01-6056**

REPORT
on
October 10, 1980 Sampling Visit
to
Forestdale, Rhode Island
31 December 1980
TDD No. F1-8011-06

Prepared by: David Cook
Submitted to: John Hackler

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October 10, 1980

Sampling Visit to
Forestdale, Rhode Island

TDD #: F1-8011-06

Site Name: Stamina Mills, Inc.

Site Location: Town of Forestdale, Rhode Island

Principal Contact at Site: Mr. Arthur Denomme,
Town Administrator
North Smithfield, Rhode Island

Telephone: 401-767-2202

F1-8011-06

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1. PURPOSE OF VISIT

To obtain samples for possible enforcement actions against Stamina Mills, Inc. located in Forestdale, Rhode Island.

2. OBJECTIVE

To obtain samples of tap water for organic analysis from the following three residences in Forestdale:

Cabral	74 Maple Street (001, 002)
O'Neille	44 Main Street (003)
Robinson	316 Main Street (004)

See Figure 1 for the locations of these residences.

3. BACKGROUND

(Excerpted from a November 9, 1979 memo from Pearce M. Klazer, Engineering Coordinator, Environmental Management Department, State of Rhode Island to Carleton A. Maine, Assistant Director for Regulation, Environmental Management Department, State of Rhode Island.)

In March of 1969, Stamina Mills, Inc., a textile weaving and finishing mill located in Forestdale, Rhode Island, adopted a solvent scouring process to replace a water/detergent scouring process which discharged untreated wastewaters to the nearby Branch River. The solvent used in the new scouring system was trichloroethylene. The function of the solvent was to remove oil and other undesirable matter from newly woven fabric prior to finishing. Spent solvents

Flow in direction of river

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3. Background - continued

were pumped from the scouring system to stills where it was evaporated and condensed for recycling. Oils and other contaminants removed from the fabric by the solvents remained in the stills as "still bottoms", which were periodically pumped from the stills and burned in the plant's boilers.

Due to consumption or loss of trichloroethylene in its solvent scouring system, Stamina Mills, Inc. had to purchase about 2500 to 3000 gallons of new solvent every three or four months. The solvent was brought in by tanker truck and transferred to an above ground 6000 gallon steel storage tank located outside the north wall of the mill. From this storage tank, the solvent was charged to the solvent scouring system located inside the building. Another 1100 gallon solvent storage tank was used for standby purposes.

In the fall of 1970 or 1971, during the process of transferring a load of trichloroethylene, a transfer hose coupling disconnected spilling solvent on the ground. Solvent was noted to be flowing down to the river. It was claimed that between 100 and 300 gallons were spilled. Since the solvent appeared to have washed down to the Branch River or evaporated, no cleanup or reporting of the spill was made.

About three or four months after the spill an odor and "sweet taste" in the mill's drinking water prompted contact with a Department of Health representative, who suggested that the water not be used for drinking. Thereafter the firm used bottled water for drinking purposes. The firm's well was drilled before 1926. It is eight inches in diameter, 207 feet deep and on November 19, 1979, the static water level was 11.5 feet below the top of the well casing. See Figure 2 for a plan view of the mill site.

An inspection of the mill site on 30 October 1979 indicated that the trichloroethylene spill incident occurred very close to and uphill from the company well. After the 1977 fire which destroyed the mill, a four or five foot square, stone-lined cistern, ten to 15

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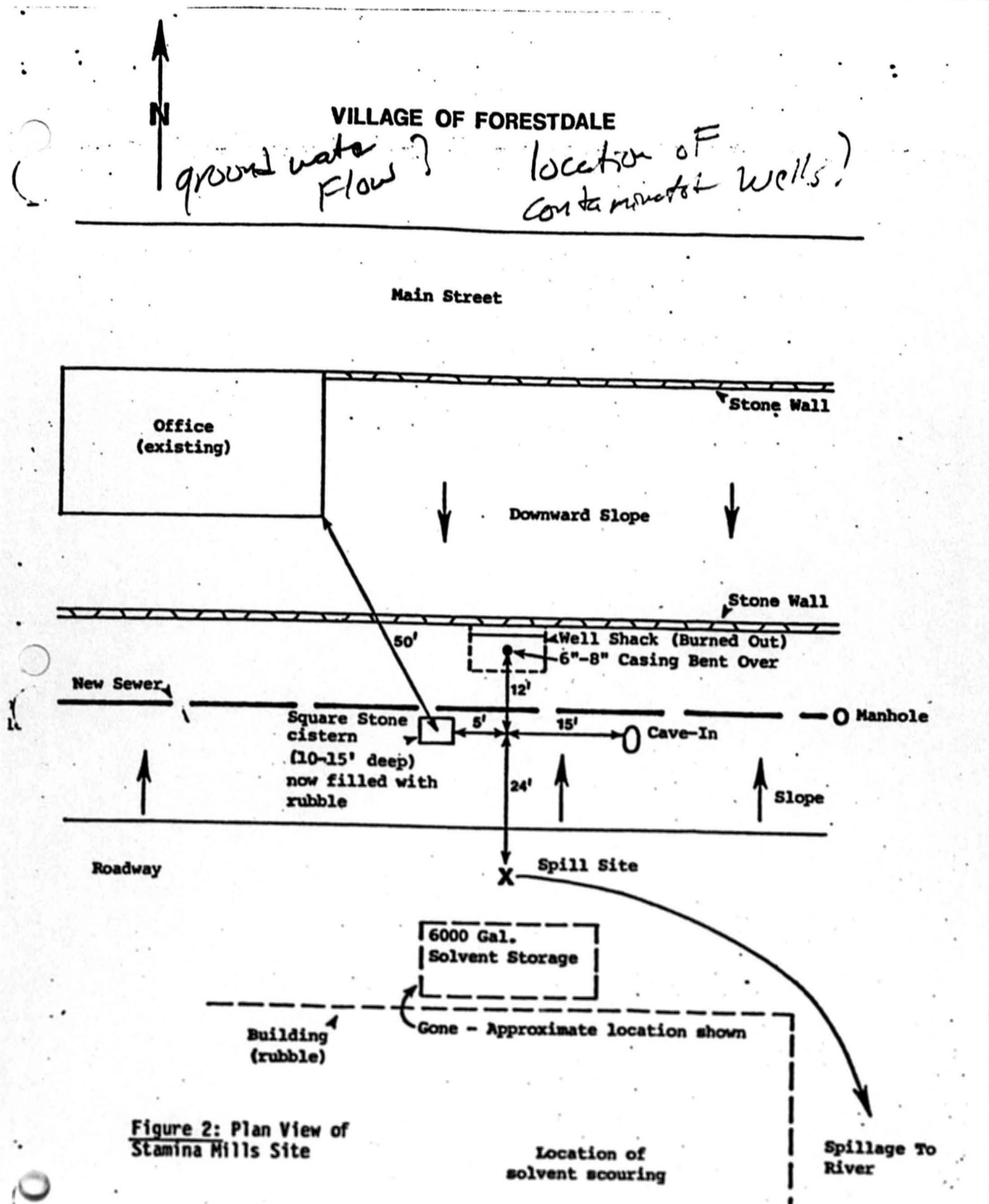


Figure 2: Plan View of Stamina Hills Site

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3. Background - continued

feet deep, was located between the well and spill site. It is possible that some trichloroethylene from the spill may have entered this cistern, which is located 12 feet from the company well. The cistern is now filled with rubble from sewer excavation. The casing of the company well appeared to be bent over.

The solvent recovery system is depicted in Figure No. 3. The "still bottoms" were not successfully burned in the company's boiler as originally proposed and were later deposited at the mill landfill directly east of the building. Approximately one drum a day (20,000 gallons per year) of still bottoms' was put into this landfill.

In 1974, all wet processing was discontinued at Stamina Mills, including the solvent scouring system. The scouring system was operated until only 600 or 700 gallons of solvent remained in the large storage tank. Upon shut-down, the solvent storage tanks were abandoned with the solvent inside. The mill was later sold.

After the fire of 1977, nothing of the solvent storage tanks could be found. Two large tanks for ammonia and acid remain on site at present.

Mr. Frank Morra, geologist, inspected the site on 30 October 1979. With the aid of geologic maps of the area he indicated that the bedrock foliation dips to the north/northeast (away from the river and toward the village). He further indicated that the bedrock fractures easily parallel to the direction of foliation.

Information regarding the present owner of the site and his attorney are as follows:

Owner of Site: Roger Meunier
Residence: Newport, Vermont
Telephone: (802) 334-2008
Business Telephone: (603) 543-0171 or (603) 736-9322

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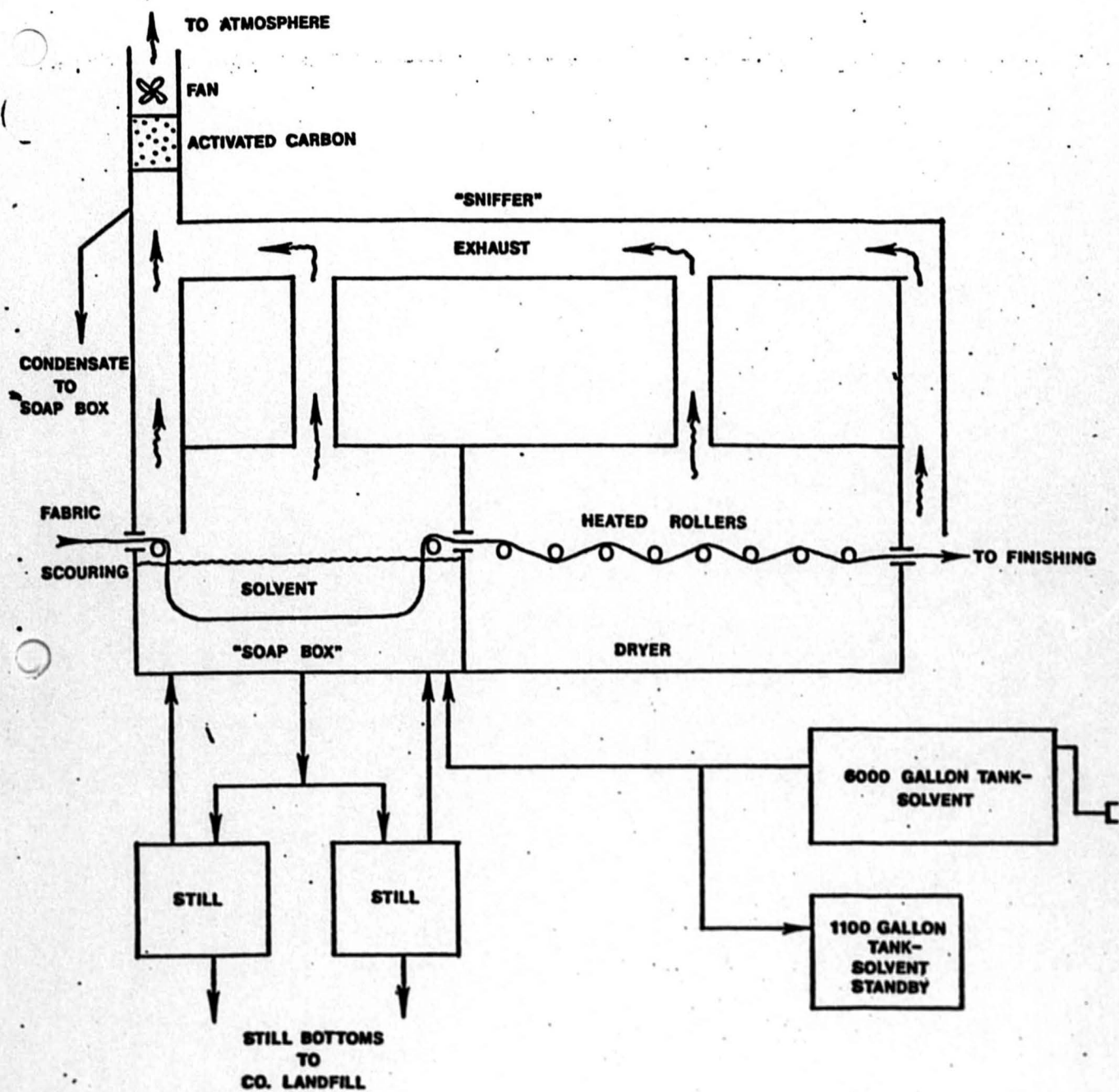


Figure 3: The Stamina Mills Solvent Recovery System

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3. Background - continued

Attorney for Site Owner: William G. Grande, Esq.
Residence: 160 Plainville Street
Providence, Rhode Island
Telephone: (401) 944-6430

4. CONCEPT OF OPERATION

David Cook of Ecology and Environment, Inc. (E & E) and Charles Larsen of the Environmental Protection Agency (EPA) entered the three homes listed in Section 2 and collected appropriate samples for analyses. Mr. Larsen collected samples for metals analysis, while Mr. Cook collected samples for organics analysis. One sample was taken from the kitchen tap of each home. In addition, a sample was taken from the Cabral home shower in response to Mrs. Cabral's descriptions of her son's rashes following showers.

All samples were iced immediately and brought to the EPA Regional Laboratory in Lexington, Massachusetts for screening and analysis. The safety plan and report for this visit are included in Appendix A.

5. LOGISTICS AND SITE SET-UP:

Due to the nature of this visit, no logistical problems were anticipated or encountered. No on-site activities were performed, and no hazardous areas were entered.

6. TEAM ORGANIZATION AND TASK ASSIGNMENTS

David Cook was the E & E representative for this site visit. The following was the schedule of events.

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6. Team Organization and Task Assignments - continued

- 0900 - Interview with Arthur Denomme, North Smithfield Town Administrator
- 1000 - Arrival at Cabral Home. Sampling of kitchen tap and shower and interview with Mrs. Cabral.
- 1120 - Arrival at O'Neill home. Sampling of kitchen tap.
- 1155 - Arrival at Robinson home. Sampling of Kitchen Tap.
- 1245 - Departure from Forestdale.

7. RESULTS OF INVESTIGATION

7.1 Site Representative Interviews:

Mr. Arthur Denomme, North Smithfield Town Administrator was met at the Town Hall in Forestdale. He stated that 1965, 1972 and 1975 aerial photographs are available at the Town Hall and that Whitman and Howard, Inc. is conducting a geological investigation of the Landfill Resource and Recovery site located approximately two miles to the southwest. This investigation includes seismic profiles which may be useful for future study of the Forestdale area. The final results are due to the state on 10 January, 1981. Mr. Denomme stated that nearly all of the water wells in the area were drilled by the A & W Artesian Well Company located in Forestdale and that they would make well logs accessible if requested.

Mrs. Carolyn Cabral was interviewed at her home at the time of sampling. The Cabrals had been drinking water from their well for two years before changing to bottled water one year ago. Mrs. Cabral feels that the following symptoms suffered by members of her family are the result of well water contamination.

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7.1 Site Representative Interviews - continued

- Mr. Cabral is now hospitalized with liver problems.
- After showering, family members experience dizziness.
- Mrs. Cabral's son has a permanent rash.

In addition, all plumbing fixtures in the house are corroded. A local nurse from North Smithfield has conducted a health survey of area residents. The results, which are not yet available to the public, document a large number of rashes, cysts and tumors as well as other disorders.

Mrs. Cabral spoke of Mr. Leonard Girard of Lake Belair Avenue in North Smithfield who worked at Stamina Mills for 30 to 40 years. He has described a tunnel under the Branch River large enough to allow passage of two horses and a cart. The tunnel was used to transport materials to the mill from a storage area on the other side of the river. This use of the tunnel was eventually terminated and the tunnel was subsequently used for disposal of mill wastes including still-bottoms. A man was periodically lowered by his feet with a ramrod to compact the waste. Mr. Girard has also described the trichloroethylene spill mentioned in Section 3 and feels that thousands of gallons of the solvent were involved.

Mrs. Cabral stated that the only other industry in town using solvents is a screw and tool manufacturer.

Mrs. O'Neill stated that there are no health problems in the family which she attributes to drinking well water. However, her husband who is 36 years of age, has lymph node cancer. She reports that open cuts tingle as with an electric current when placed under running water in her home. The furnace coils in her home are corroded beyond use in approximately three months.

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7.1 Site Representative Interviews - continued

Mrs. Robinson reported no adverse affects from the use of her well water with the exception of black deposits in her toilet.

7.2 Sampling Procedures:

All stations were sampled in the same manner. After running the tap for five minutes, four 40 ml VOA vials were collected from each station as follows:

- 2 full vials for volatile organics analysis
- 1 full vial for determination of pH
- 1 vial with headspace for screening

The sampling stations (See Figure 1 for locations) were:

- Station 001 - Sample #50436 - the Cabral home kitchen tap
- Station 002 - Sample #50437 - the Cabral home shower
- Station 003 - Sample #50438 - the O'Neille home kitchen tap
- Station 004 - Sample #50439 - the Robinson home kitchen tap

7.3 Analytical Results:

The following analytical results were provided by the EPA Regional Laboratory on 29 December 1980:

<i>interpretation</i>	#50436	Cabral home, kitchen tap	1,1,1 Trichloroethane 6 ppb
			Trichloroethylene 13 ppb
			Tetrachloroethylene 9 ppb
	#50437	Cabral home, bathroom shower	1,1,1 Trichloroethane 7 ppb
		Trichloroethylene 11 ppb	
		Tetrachloroethylene 9 ppb	
#50438	O'Neille home, kitchen tap	1,1,1 Trichloroethane 5 ppb	
		Tetrachloroethylene 1 ppb	
#50439	Robinson home, kitchen tap	Methylene chloride 4 ppb	
		1,1,1 Trichloroethane 3 ppb	

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7.3 Analytical Results - continued

The pH of all samples was determined to be 6-8 using pH range paper.

7.4 Site Survey Data:

The nature of this TDD precluded actual site inspection of Stamina Mills. However, inspection of the properties associated with the three residences visited showed that bedrock is very near or at the surface. A sample of the bedrock was collected from the basement of the O'Neille home. The sample is a well-foliated mica schist.

8. CONCLUSIONS

Four chlorinated organic solvents (1,1,1 trichloroethane, trichloroethylene, tetrachloroethylene and methylene chloride) have been detected in the well water of three residences in Forestdale, Rhode Island.

The low levels of contamination present are unlikely to cause the symptoms described by Mrs. Cabral and Mrs. Robinson (See Section 7.1).

Plumbing fixtures and furnace coils in the homes are not corroding due to high water acidity as the water tested to be neutral in pH.

Background information indicates a definite potential for organic chemical contamination of all groundwater in the area as a result of former activities at Stamina Mills, Inc.

9. RECOMMENDATIONS

Mr. Klazer, in his memo referenced in Section 3, has very thoroughly presented existing groundwater quality data for the Forestdale area. Very little, if any, additional sampling of existing

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9. Recommendations - continued

wells is required.

It should be determined if the Whitman and Howard, Inc. study of Landfill Resource and Recovery includes seismic data for Forestdale. If not, a seismic study of the Stamina Mills site and surrounding area should be performed to generate a bedrock contour map and water table elevation data.

MI?

Static water levels of existing wells should be determined and a water table contour map generated. From this map, groundwater flow directions should be determined.

A more detailed map of contamination plumes should be generated from existing analytical data.

The existence and location of a tunnel under the Branch River should be determined from seismic data. Possible contamination from such a tunnel should be evaluated.

A thorough sampling of surface impoundments and landfilling associated with Stamina Mills should be performed to determine if leaching of contaminants is occurring.

The placement of additional monitoring wells on Stamina Mills property may be necessary to adequately define the plume of contamination. + OK site between Stamina Mills

and contaminated well

• Direction of groundwater flow should be documented

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APPENDIX A

SITE SAFETY PLAN
AND
REPORT

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SITE IDENTIFICATION

SITE: Forestdale, R.I. DATE: 12/8/80 TDD #: F-1-801
LOCATION: Forestdale, R.I. PREPARED BY: Lori Fucarile Of
INVESTIGATIVE OBJECTIVE(S): To investigate contaminated water supplies in Forestdale, R.I.
PROPOSED DATE OF INVESTIGATION: 12/10/80

BACKGROUND REVIEW: Complete: Preliminary:
DOCUMENTATION/SUMMARY: OVERALL HAZARD: Serious Moderate Low Unkn

SITE/WASTE CHARACTERISTICS

WASTE TYPE(S): Liquid Solid Sludge Gas
CHARACTERISTIC(S): Corrosive Ignitable Radioactive Volatile Toxic React. Unk. O
FACILITY DESCRIPTION: Size: N/A Buildings: 3 private homes
Mr. John O'Neil, Mrs. Theresa Robinson, and Ms. Carolyn Cabral
Topography: N/A
Principal Disposal method (type and location): N/A
Unusual Features (dike integrity, power lines, terrain, etc.) N/A
Status: (open, closed, unknown) N/A
HISTORY: (worker or non-worker injury; complaints from public; previous agency action):
 None reported

HAZARD EVALUATION

In October, 1979, private Forestdale Wells were sampled and state and federal
analyses confirmed the presence of trichloroethylene and tetrachloroethylene
contamination. One Forestdale well was found contaminated with a third contaminant
1,1,1 - trichloroethane.
Ecology and Environment, Inc. will take three priority pollutant samples from the kitchen
faucet in three private homes. Field clothes, TLD badges and disposable rubber gloves
will be worn while sampling.

FIELD INVESTIGATION TEAM - REGION 1
WORK PLAN INSTRUCTIONS

I. PERIMETER ESTABLISHMENT: Map/Sketch Attached ^c Site Control
Public Perimeter Identified Zone(s) of Contamination Identified
NOTES: Private homes

^c areas of special safety concern identified

II. PERSONAL CLOTHING*

Level of Protection: A B C D X
Modifications: Field Clothes

Surveillance Equipment and Materials: TLD badges

III. DECONTAMINATION PROCEDURES:

Hot Line Location (initial): N/A

Command Post Location (initial):

PDS Stations: 1. 2.

3. 4. 5.

Equipment and Materials/Special Facilities: Disposable rubber gloves should be bagged in a plastic bag and disposed of in the Ecology & Environment office dumpster.

IV. SITE ENTRY PROCEDURES:

Team Size: E & E 1 State Other EPA - 1

Entry Briefing (date) Day before site entry

Station Designation (name/responsibility): 1. Dave Cook, project leader

2. 3.

4. 5.

6. 7.

Work Schedule/Limitations: Entry into homes per permission of owners

Notes:

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WORK PLAN INSTRUCTIONS - continued

EMERGENCY PRECAUTIONS:

ACUTE EXPOSURE SYMPTOMS

FIRST AID

As expected since these are home faucets
and no exposure symptoms have been previously
reported.

HOSPITALS/POISON CONTROL CENTERS (address, telephone number)

See Resources List

EMERGENCY TRANSPORTATION SYSTEMS (Fire, police, ambulance)

See Resources List

EMERGENCY ROUTES

Take Route 146 to the first intersection. At the set of blinking lights, take a left on
South Main Street. Proceed along South Main Street as far as possible until you reach a
rotary. Take a right, then take the next left to Woonsocket Hospital. (Hospital signs are
posted along this route throughout the town.)

EQUIPMENT CHECKOUT

SCBA _____ Cylinders _____
Ultratwin _____ Cartridges _____
Explosimeter _____
Indicator _____
Diaphragm Pump _____ Tubes _____
Radiation Survey Meter _____
Radiation Contamination Meter _____

Eye Wash Unit _____
First Aid Kit _____
Drinking Water Supply _____
Personal Clothing _____
Decontamination Mat'ls. _____

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FIELD INVESTIGATION TEAM - REGION I

SITE SAFETY PLAN SUMMARY

NAME OF SITE: Forestdale, R.I. DATE: 12/10/80

TDD #: F-1-8011-06

Location of site: Forestdale, R.I.

Directions to site: Route 2 to Route 126 to Route 146

Project Leader/Site Entry Leader: Dave Cook

Safety Person: Same

Equipment Person: Same

Work Party: N/A

Reason for Site Entry: To investigate contaminated water supplied in
Forestdale, R.I.

Special Hazards: None expected

Hazard Assessment: (H, M, L, Unk.) Low

Level of Protection: Level D

Required Protective Equipment:

- | | |
|-------------------------|-------------------------|
| 1. <u>field clothes</u> | 2. <u>rubber gloves</u> |
| 3. <u>TLD badges</u> | 4. _____ |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |
| 9. _____ | 10. _____ |

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ECOLOGIST AND ENVIRONMENT, INC.
FIELD INVESTIGATION TEAM - REGION I

SITE SAFETY REPORT

NAME OF SITE: Forestdale, RI DATE OF ENTRY: 12/10/80
TDD #: F-1-8011-06

Reason for Site Entry: To investigate contaminated water supplies in Forestdale,
RI

Personnel on Site:

Site Entry Leader: David Cook
Safety Person: David Cook
Equipment Person: David Cook
Work Party: David Cook

Other E & E Personnel: _____

Other Personnel on Site: Charles Larson, EPA

Explain Any YES Answer on an Attached Sheet:	YES	NO
1. Was the Safety Plan followed as presented? Explain any and all deviations in full.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Did any team member report chemical exposure?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Did any team member report illness, discomfort, or unusual symptoms?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Did any team member report environmental problems? (heat, cold, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Did any team member report injury?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Did the site entry have to be curtailed for <u>any</u> reason? (rain, lack of air, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Were any emergency services or resources utilized?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Were there any unusual occurrences?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Was the Safety Plan adequate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. What changes would you recommend? <u>None</u>	<input type="checkbox"/>	<input type="checkbox"/>

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SITE: Forestdale, R.I.

TDD #: F-1-8011-06

DATE: 12/10/80

RESOURCES
(locate resources on area map)

	<u>NAME</u>	<u>TOWN</u>	<u>PHONE</u>	<u>NOTIFIED YES/NO</u>
FIRE	North Smithfield	North Smithfield	401-762-1414	No
POLICE	North Smithfield	"	401-762-1212	No
AMBULANCE	"	"	401-762-1212	No
HOSPITAL ER	Woonsocket Hospital, 115 Cass Ave., Woonsocket		401-767-3211	No
WATER SUPPLY	On van.			
TELEPHONE	In private homes			Yes
RADIO COMMUNICATIONS	N/A			
AIRPORT	Green State Airport, Warwick		401-737-4000	No
HELIPORT AREA	N/A			
EXPLOSIVES UNIT	N/A			
EPA CONTACT	Chuck Larsen, EPA Water Supply Branch		1-223-6688	Yes

LIST OTHER RESOURCES:

EMERGENCY NUMBERS

E & E, Inc., Woburn	(617) 935-0228	(0238) (4008)
E & E, Inc., Arlington, VA	(703) 522-6065	24 hr. number - call forwarding
Dr. Harbison - Vanderbilt	(615) 322-4754	
Dr. Harbison - home	(617) 747-6353	24 hr. number - 9 second message
Robert Young - home	(617) 545-4905	
Anne Marie Desmarais - home	(617) 897-5306	
Peter Bent Brigham, Occup. Ind. Health Clinic:		
Dr. Speizer, Dr. Shenker, Kay Jordan	(617) 732-5983	
24 hour number - ask for bellboy 904	(617) 732-6000	

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