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## Start Sheet Scanning

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**Permit / Project #:** 41285(A)

**Case Name:** NOCKAMIXON TOWNSHIP ROUTE 563 CERCLA SITE PA RPT MARCH 1989

**Year:** 1989

**eFacts Facility ID:** 620512

DISPATCHED

APR 10 1989



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III

841 Chestnut Building  
Philadelphia, Pennsylvania 19107

APR 10 1989

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Art Dalla Piazza  
PA Department of Environmental Resources  
7th Floor, Fulton Building  
P.O. Box 2063  
Harrisburg, PA 17120

Septa Roberts Ave	PA 2251	PA
Nockamixon Township	PA 2483	PA
Vandor Company	PA 2193	PA
Kulpville Quarry	PA 2234	SI
Purex Corp. - Fels Plant	PA 636	RECON

Dear Mr. Dalla Piazza:

We are forwarding to you copies of the final reports for the above referenced projects. If there are any questions concerning these reports, please call me at 215/597-1073. Thank you.

Sincerely,

A handwritten signature in cursive script that reads "Paul Racette".

Paul Racette  
Site Investigation Section

Enclosure

✓cc: George Danyliw, PA DER, Norristown, (w/enclosure)



R-585-11-8-75

PRELIMINARY ASSESSMENT OF  
NOCKAMIXON TOWNSHIP - ROUTE 563  
PREPARED UNDER

TDD NO. F3-8810-11  
EPA NO. PA-2483  
CONTRACT NO. 68-01-7346

FOR THE  
HAZARDOUS SITE CONTROL DIVISION  
U.S. ENVIRONMENTAL PROTECTION AGENCY

MARCH 22, 1989

NUS CORPORATION  
SUPERFUND DIVISION

SUBMITTED BY

  
RUTH MANNING  
PROJECT MANAGER

REVIEWED BY

  
MICHAEL SNYDER  
SECTION SUPERVISOR

APPROVED BY

  
GARTH GLENN  
REGIONAL OPERATIONS  
MANAGER, FIT 3

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SECTION 1

## 1.0 INTRODUCTION

### 1.1 Authorization

NUS Corporation performed this work under Environmental Protection Agency Contract No. 68-01-7346. This specific report was prepared in accordance with Technical Directive Document No. F3-8810-11 for the Nockamixon Township - Route 563 site located in Bucks County, Pennsylvania.

### 1.2 Scope of Work

NUS FIT 3 was tasked to conduct a preliminary assessment of the subject site.

### 1.3 Summary

The Nockamixon Township - Route 563 site is located in Ottsville, Nockamixon Township, Bucks County, Pennsylvania. The 1-acre site is an inactive, former drum storage area for an estimated 50 drums.

The site is currently owned by Roxanne Schulburger-Miller, who inherited the property from her father, William Schulburger, when he died in the early 1980s. The site was originally used for farming. [In the 1970s, Mr. Schulburger pumped out septic tanks and disposed the waste on site and created a dump site for garbage.] In January 1980, the Pennsylvania Department of Environmental Resources (PA DER) supervised a cleanup and drum removal of approximately 50 drums at the site; however, PA DER file information for the site could not be located. Gary Bonner, of PA DER, has indicated to FIT that no sampling was conducted by PA DER in conjunction with the cleanup.

The Bucks County Health Department (BCHD) collected 1 soil sample from the area where the drums had been and 11 home well samples near the site. Four of the home well samples and the soil sample contained high amounts of trichloroethene (TCE). BCHD recommended that the persons utilizing home wells with high amounts of TCE should do one of the following: drink bottled water, install an activated carbon filter unit, or boil water for 5 to 10 minutes. No other remedial action has been taken at the site.

The site is currently not in use and is being left to develop natural growth. During the site visit, NUS FIT 3 noticed no stressed vegetation, and all drums had been removed. The site is being used by hunters, and according to neighbors (Miller and Kasenia) of the site, people have been dumping septic tank sewage in the area.

The site and the surrounding three-mile radius rely on groundwater for potable purposes. There is no municipal water supply in the area.



**SECTION 2**

## **2.0 THE SITE**

### **2.1 Location**

The Nockamixon Township - Route 563 site is located at the intersection of Routes 563 and 412 on the corner of a dirt road that connects both routes, in Ottsville, Nockamixon Township, Bucks County, Pennsylvania (see figure 2.1, page 2-2). The site is located on the United States Geological Survey (U.S.G.S.) Riegelsville, Pennsylvania quadrangle, with coordinates at 75° 11' 30" longitude and 40° 30' 00" latitude. In relation to the southeastern corner of the Riegelsville, Pennsylvania quadrangle, the site is 1/8 inch north and nine inches west.<sup>1</sup>

### **2.2 Site Layout**

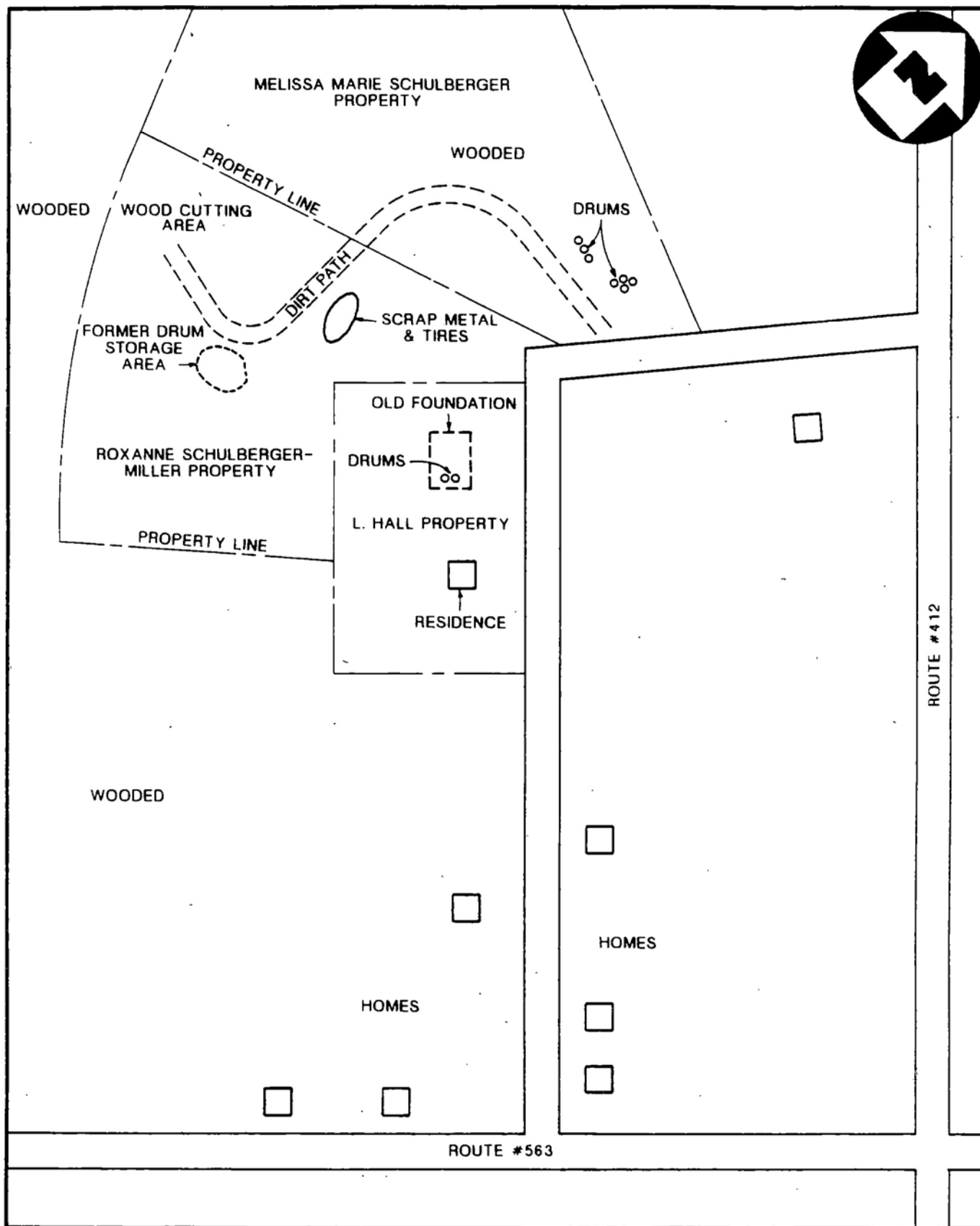
The 1-acre site is located in the middle of a 10-acre lot that consists of a wooded area. Access to the site is not restricted. A dirt path runs through the property of Melissa Marie Schulburger, adjacent to the site, to Roxanne Schulburger-Miller's property. The site is located south of the dirt road on Roxanne Schulburger-Miller's property. The former drum storage area is located between a scrap metal pile, which was originally a dump site for garbage in the 1970s (the scrap metal pile is approximately 100 yards northeast of the site), and a wood-cutting area, which is located approximately 100 yards northwest of the site. Septic tank sewage was also disposed at the former drum storage area and areas adjacent to this site. The boundaries of the sewage disposal are unknown. Adjacent to the property, the FIT observed seven drums. No buildings were observed on site (see figure 2.2, page 2-3). The property adjacent to the site contained an old foundation that consisted of 3 walls of stones and a floor of an old building located approximately 175 yards east of the former drum storage area. On the floor of the old foundation were approximately three empty rusted drums.<sup>2</sup>

### **2.3 Ownership History**

The site is currently owned by Roxanne M. Schulburger-Miller, of Hellertown, Pennsylvania. Roxanne Schulburger-Miller inherited the land in the early 1980s from her father, William Schulburger. The site was originally part of the Schulburger Estate, which consisted of approximately 76 acres and was purchased in 1968 by William Schulburger.<sup>3</sup>







**SITE SKETCH**  
**NOCKAMIXON TOWNSHIP - ROUTE #563**  
 ( NO SCALE )

FIGURE 2.2



## **2.4 Site Use History**

The site was originally used as farm land when it was part of the Schulburger Estate. In the 1970s, according to Roxanne Schulburger-Miller, her father pumped out septic tanks on the site and created a dump site for garbage. The dump site was cleaned up in the early 1980s, and the land was returned to a wooded area. The site is currently used by hunters. Neighbors of the site have informed NUS FIT 3 that illegal septic tank dumping is still occurring in the area.<sup>3,4</sup>

## **2.5 Permit and Regulatory Action History**

The site was used as a drum storage area for several years in the 1970s. In January 1980, PA DER supervised a drum removal and cleanup of the site. According to BCHD, Gary Bonner, of PA DER, stated that approximately 50 barrels were lying in 2 piles on site. There were indications that many of the barrels had leaked. Mr. Bonner has indicated to FIT that no sampling was conducted by PA DER in conjunction with the cleanup. No known permits have been issued for this site.<sup>5</sup>

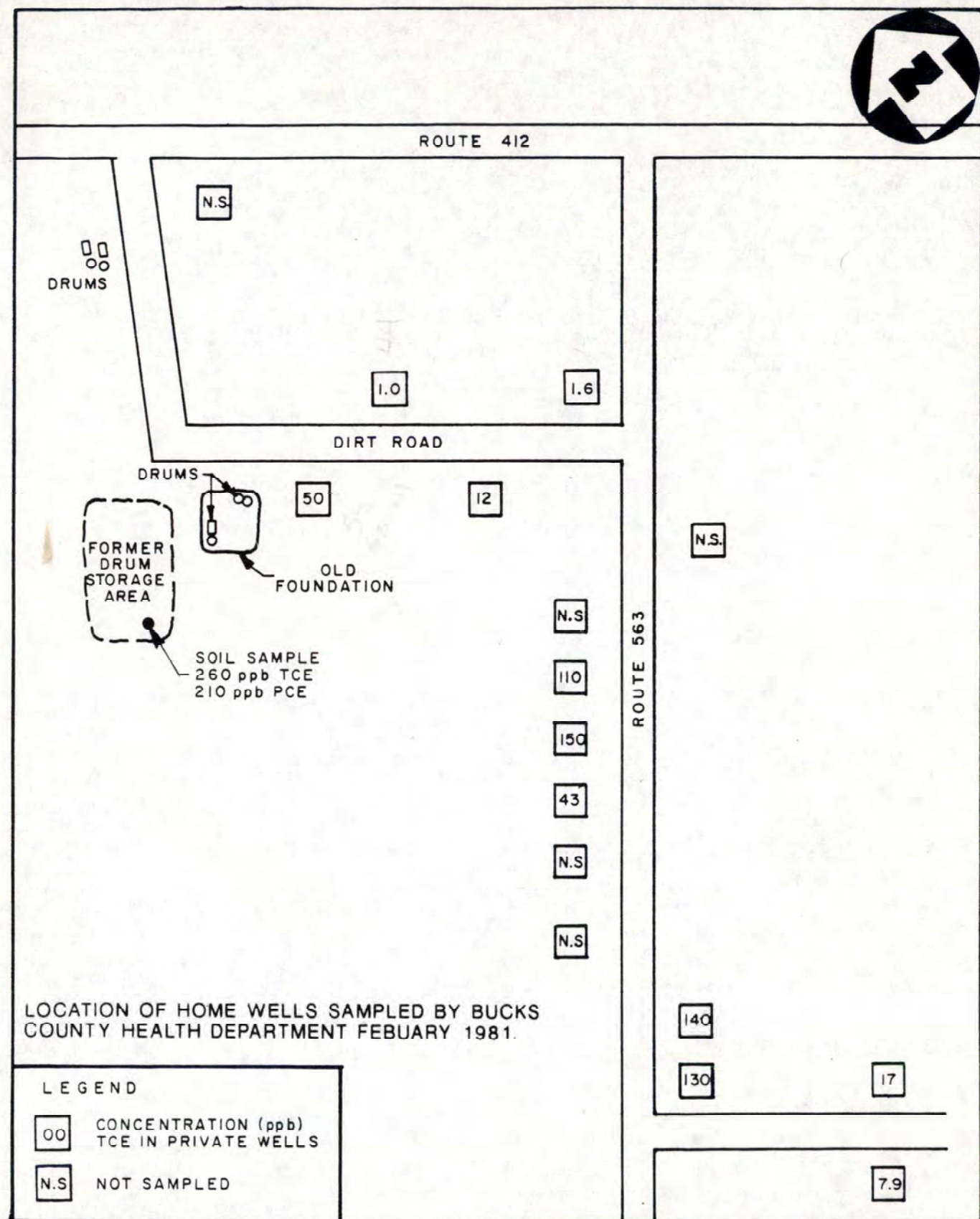
BCHD received a complaint in February 1981 from Larry Hall, who owns property adjacent to the site, informing them of high amounts of TCE in his home well. BCHD sampled several home wells in the area and collected one soil sample from the area where the drums had been. Twelve samples were taken. Four of the home well samples revealed concentrations of TCE between 110 and 150 ppb (see figure 2.3, page 2-5). The one soil sample taken contained 79 ppb of 1,1,1-trichloroethane (1,1,1-TCEA), 260 ppb TCE, and 210 ppm tetrachloroethylene (PCE) (see appendix A for sample results).<sup>5</sup>

BCHD gave the sample results to all of the residents whose home wells had been sampled, along with a letter of recommendation in an effort to reduce exposure to TCE. BCHD recommended, for those whose sample result was above 75 ppb of TCE, that one of the following should be done: drink bottled water, install a line bypass activated carbon home treatment unit, or boil the water for 5 to 10 minutes (a copy of this letter appears in appendix A).<sup>5</sup>

No other regulatory action or known samples have been taken on this site.

## **2.6 Remedial Action to Date**

According to BCHD file information, in January 1980, PA DER supervised a drum removal and cleanup of the site. A file search was conducted in the Norristown PA DER office, but NUS FIT 3 was unable to locate the file containing the details of this drum removal.<sup>5</sup>



**NOCKAMIXON TOWNSHIP - ROUTE #563**  
**BUCKS CO. SITE DISCOVERY, BUCKS CO., PA.**

NO SCALE

FIGURE 2.3





SECTION 3

### **3.0 ENVIRONMENTAL SETTING**

#### **3.1 Water Supply**

Water is supplied in the area of the site by groundwater. All residents within the three-mile radius of the site rely on private groundwater wells for potable purposes. There are 3 residential homes located within 1,000 feet of the site. The total population within the 3-mile radius of the site is approximately 3,172 people. One home well located 900 feet southeast of the site had a reported well depth of 240 feet.<sup>6</sup>

#### **3.2 Surface Waters**

All surface water from the site runs off in a dendritic drainage pattern. Runoff would migrate southwestwardly and eventually enter Haycock Creek, located approximately 3/4 mile southwest of the site. Haycock Creek flows southwardly for approximately two stream miles until it merges with Tohickon Creek. A reservoir is located where Haycock Creek and Tohickon Creek merge. All creeks are perennial. Tohickon Creek is on the state-wide list for cold-water fisheries. The only known uses of Haycock Creek and Tohickon Creek are recreational uses. The reservoir is used for boating and fishing.<sup>1,7</sup> There are no wetlands within three miles of the site.

#### **3.3 Hydrogeology**

The geologic and hydrogeologic conditions in the study area were researched as part of the site investigation. A preliminary literature review was conducted to determine surface and subsurface geologic conditions, soil character, and the status of groundwater transport and storage.

### 3.3.1 Geology

The Nockamixon Township - Route 563 site lies within the Triassic Lowlands Sections of the Piedmont Physiographic Province.<sup>6</sup> The rocks of the Triassic Lowlands are more commonly known as the Newark Group, a 16,000- to 20,000-foot section of nonmarine sedimentary rocks and associated intrusive and extrusive basic rocks.<sup>8</sup> The Newark Group was deposited in the Newark Basin, which was part of a fracture system initiated by the widening of the Atlantic Basin and separation of the continents in Mesozoic time.<sup>8,9</sup> The shape and extent of the original depositional basin were very similar to the present form of the outcrop belt and closely follow the regional grain of Appalachian structures (30 to 50 degrees northeast).<sup>8</sup> Continuous downfaulting along the northwestern border has produced a regional 5 to 20 degree northwestward dip.<sup>8,10</sup> The outcrop belt is broadest in Bucks County, where it attains a width of 32 miles. The site area has a dendritic drainage pattern.<sup>10</sup>

The site is underlain by the Triassic age Brunswick Formation (see figure 3.1, page 3-3). The Brunswick consists of a monotonous succession of reddish-brown mudstone and siltstone with local beds of claystone and fine-grained sandstone. The formation also contains abundant dinosaur footprints along with bony fish, reptilian, and plant fossils. These fossils suggest a broad mudflat paleoenvironment with wandering watercourses and weak external drainage. The thickness of the Brunswick Formation is approximately 6,000 feet.<sup>8</sup>

Underlying and interfingering with the Brunswick Formation and cropping out in narrow bands throughout the study area is the Triassic age Lockatong Formation.<sup>8,10</sup> The Lockatong Formation is composed of alternating detrital and chemical sediments. The detrital sediments consist of shales succeeded by platy, dark, carbonate-rich mud and argillite with occasional ripple-bedded siltstone and sandstone. The chemical sediments consist of dark gray-black dolomitic mudstones succeeded by gray carbonate-rich argillite. Fossil content of the formation includes fish, labyrinthodont amphibians, freshwater ostracods, and mollusks. These fossils, in addition to the cyclic detrital and chemical sediments, suggest a lacustrine paleoenvironment for the Lockatong. Given the unique depositional environment of the Lockatong Formation, its thickness varies widely.<sup>8</sup> The formation is about 3,750 feet thick at the confluence of the Delaware River and Tohickon Creek (7.5 miles southeast of the site).<sup>10</sup>

Bands of the Brunswick and Lockatong Formations have been extensively intruded by igneous diabase dikes/sills and, as a result, shale near the intrusive bodies has been altered to hard, dark-colored hornfels. The apparent width of the altered zone ranges from a few feet to a mile in outcrop but probably never exceeds a few hundred feet in thickness.<sup>10</sup>







Cropping out 2.2 miles northeast and 1.1 miles southwest of the site is Triassic age diabase, commonly known as traprock.<sup>10</sup> These discordant sheets and cross-cutting dikes of diabase intruded the Newark Group throughout late Triassic time; therefore, their stratigraphic position varies throughout the study area.<sup>8</sup> The rock is dark gray to black, dense, and very fine grained and consists of 90 to 95 percent labradorite and augite.<sup>10,11</sup> The dikes are generally 5 to 100 feet thick, while the sheets are much thicker.<sup>11</sup>

### **3.3.2 Soils**

The site is underlain by a Reaville Series soil. The soil is a moderately deep, moderately well-drained to somewhat poorly drained shaly silt loam that formed in loamy material weathered from red and brown shale. A representative profile consists of a top 6 inches of a dark reddish-brown shaly silt loam, 6 inches of a reddish-brown shaly heavy silt loam, 10 inches of a reddish-brown very shaly silt loam, and 4 inches of a reddish-brown very shaly silt loam. The soil has a slow permeability, a low available water capacity, and a strongly acid pH (4.5 to 5.0).<sup>12</sup>

### **3.3.3 Groundwater**

The Brunswick Formation is the aquifer underlying the site. The Brunswick has a moderate to low permeability and a moderate secondary porosity due to vertical joints and bedding-plane fractures.<sup>11</sup> The Brunswick is an important source of water for domestic, industrial, and public supply in Bucks County. The reported yields of 52 wells for which records are available range from 2 to 250 gallons per minute (gpm) and average 40 gpm.<sup>10</sup> It is likely that the Brunswick is hydraulically interconnected with the other formations in the study area via fracture and joint openings.

The direction of shallow groundwater flow is to the southwest toward Haycock Creek. Flow direction is based upon topographical observations and the role of creeks as discharge points for groundwater.

### **3.4 Climate and Meteorology**

The area where the site is located has an average mean temperature of 54.6°F, with an average mean minimum temperature of 46.2°F and an average mean maximum temperature of 62.9°F. The annual precipitation in the area is 41.38 inches per year. The annual evapotranspiration in the area is 32 inches per year. The total net precipitation, determined by subtracting the mean annual evaporation from the mean annual precipitation, is 9.38 inches. The 1-year, 24-hour rainfall for this area is 2.75 inches.<sup>13,14,15</sup>

### **3.5 Land Use**

The site is located between Route 412 and 563 in a rural, wooded area in Nockamixon Township. Residential homes are located approximately 500 feet south of the site and 800 feet east of the site. Located north and west of the site is a wooded area. One mile west of the site is Haycock Mountain, part of State Game Land Parcel No. 157. Overall, the area surrounding the site is mostly wooded or farmland with scattered residential homes. No major industry has been identified in the area.<sup>1</sup>

There are two other sites located within the study area that are being addressed under CERCLA. Revere Chemical Company (EPA No. PA-1015) is located less than one mile northeast. Penn Rare Metals (EPA No. PA-1216) is located two miles northeast of the site.<sup>16,17</sup>

Revere Chemical Company was previously operated as a metals recovery facility and stored metals and acid-containing wastes on site in unlined, earthen lagoons. Some wastes (piles, drums) are still reportedly on site. Concern is for groundwater contamination. Court action closed the facility in 1970. The site has been inactive since its closing.<sup>16</sup>

Penn Rare Metals is the location of a former pilot plant. The plant, also known as Echo Chemical Company, used a process to precipitate copper from etching wastes generated from the electronics industry. In late 1964, Echo Chemical abandoned the plant and relocated elsewhere in Bucks County.<sup>17</sup>

### **3.6 Population Distribution**

The site is located in a rural area. There are approximately 585 persons within a 1-mile radius of the site. Within a 2-mile radius, there are approximately 904 persons. The 3-mile radius includes approximately 1,683 persons. The total population within the 1-, 2- and 3-mile radii is 3,172 people.<sup>1</sup>

### **3.7 Critical Environments**

Two federally listed endangered birds are expected to be found as transient species in the project area. They are the bald eagle (Haliaeetus leucocephalus) and the peregrine falcon (Falco peregrinus). There is no listed critical habitat for these species in the project area.<sup>18</sup> There are no wetland areas within a three-mile radius of the site.

#### SECTION 4

#### **4.0 WASTE TYPES AND QUANTITIES**

BCHD file information indicates that the drum storage site contained approximately 50 drums in 2 piles. There were indications that many of the drums had leaked. According to BCHD, PA DER supervised a drum removal and cleanup in January 1980. Sample analysis taken by BCHD revealed concentrations of TCE and PCE in the soil where the drums had been. Several home wells in the area contained concentrations of TCE (see appendix A for laboratory results).<sup>3</sup> A file search was conducted in the Norristown PA DER office, but NUS FIT 3 was unable to locate the file for the site. It is not known what the drums contained or to where the drums were removed.



SECTION 5

## 5.0 FIELD TRIP REPORT

### 5.1 Summary

On November 1, 1988, NUS FIT 3 personnel Ruth Manning and Claire Olsovsky performed a preliminary assessment of the Nockamixon Township - Route 563 site in Nockamixon Township. Access to the site and permission to take photographs were granted by Roxanne Schulburger-Miller, the current site owner. The weather conditions during the site visit were cool, with a steady rain. Temperatures were in the low 50s. Photographs were taken at the site (see figure 5.2, page 5-5, and the photograph log, section 5.4).

### 5.2 Persons Contacted

#### 5.2.1 Prior to Field Trip

Roxanne Schulburger-Miller  
Site Owner  
10 West Water Street  
Hellertown, PA 18055  
[REDACTED]

Robert Allen  
PA DER  
1875 New Hope Street  
Norristown, PA 19401  
(215) 270-1948

Paul Racette  
U.S. EPA  
841 Chestnut Building  
Ninth and Chestnut Streets  
Philadelphia, PA 19107  
(215) 597-1073

#### 5.2.2 At the Site

Roxanne Schulburger-Miller  
Site owner  
10 West Water Street  
Hellertown, PA 18055  
[REDACTED]

### 5.2.3 Water Supply Well Information

Home well surveys were distributed to five residents surrounding the site. Three surveys have been returned (see appendix B). For the locations of these wells, see figure 5.1 (page 5-3). One survey was completed by Gimone Hall, the owner of the home well located approximately 500 feet south of the site. The well depth was unknown, and owner uses carbon filters and a water purifier before using the well for potable purposes. Another survey was completed by the Millers, the owners of the home well located approximately 900 feet southeast of the site. This well was reportedly 240 feet deep. The Millers use water softeners and indicated they have no current problems with water supply or with taste, color, or odor. The third survey was completed by Mrs. Kasenia, who is currently renting a house located 1,600 feet southeast of the site. The depth of Mrs. Kasenia's well is unknown. Mrs. Kasenia stated that she had problems with low pressure from her well and, in rainy weather, the water seemed to have a gravelly texture. All homes in the three-mile radius use home wells for potable purposes.<sup>6</sup>





### 5.3 Site Observations

- The mini-alert was set on the X1 position; no readings were recorded above background.
- The HNU background reading was 0.2 ppm; no readings were recorded above background.
- No stressed vegetation was observed.
- No drums were observed on site.
- A pile of scrap metal and tires was located next to the site.
- Seven drums were observed on the property adjacent to the site.
- No leachate seeps were observed.
- A wood-cutting area was located next to the site.
- No stained soil was observed.
- The site was easily accessible. There were no restrictions to vehicular or pedestrian traffic.
- The site was located in wooded lot area.

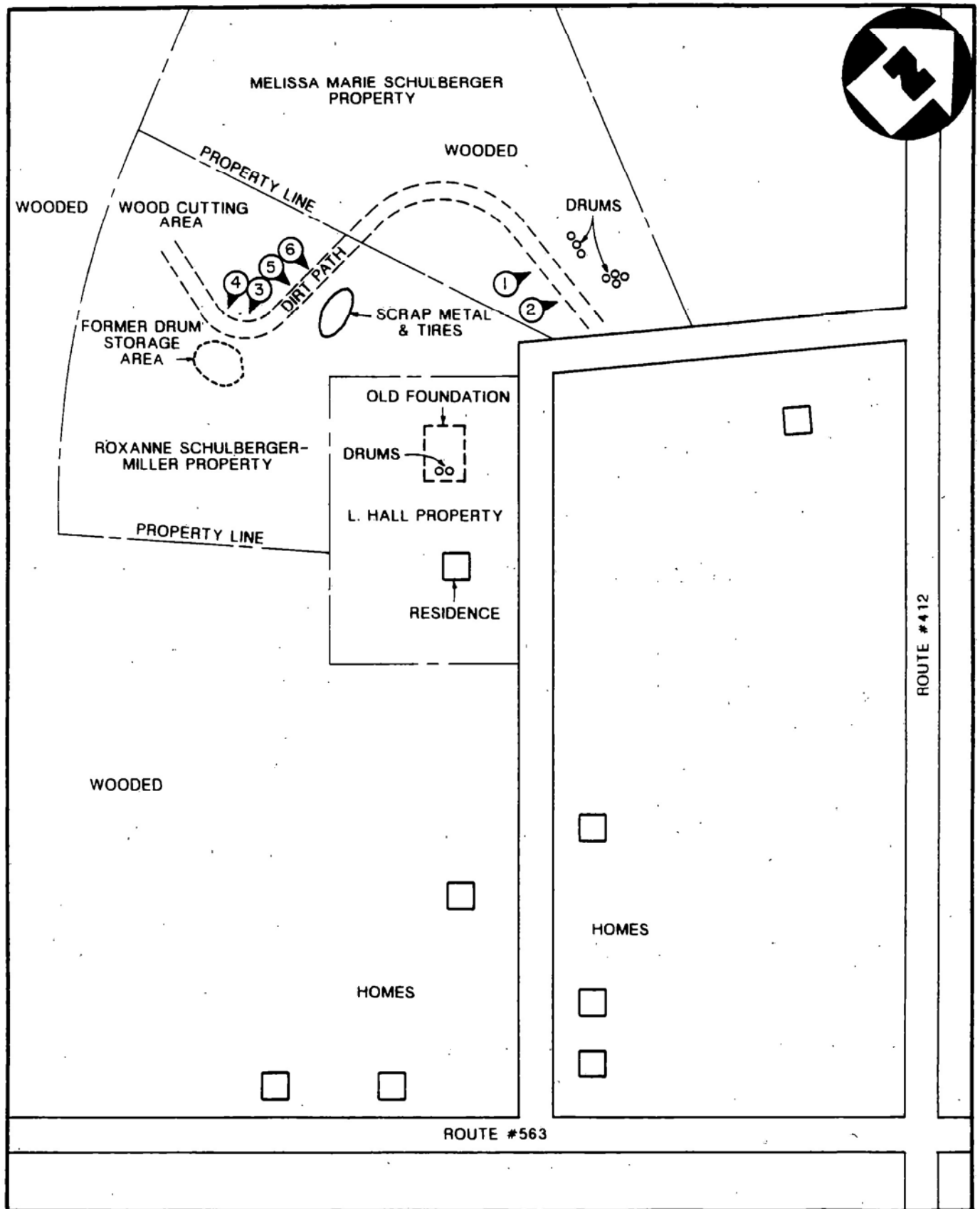
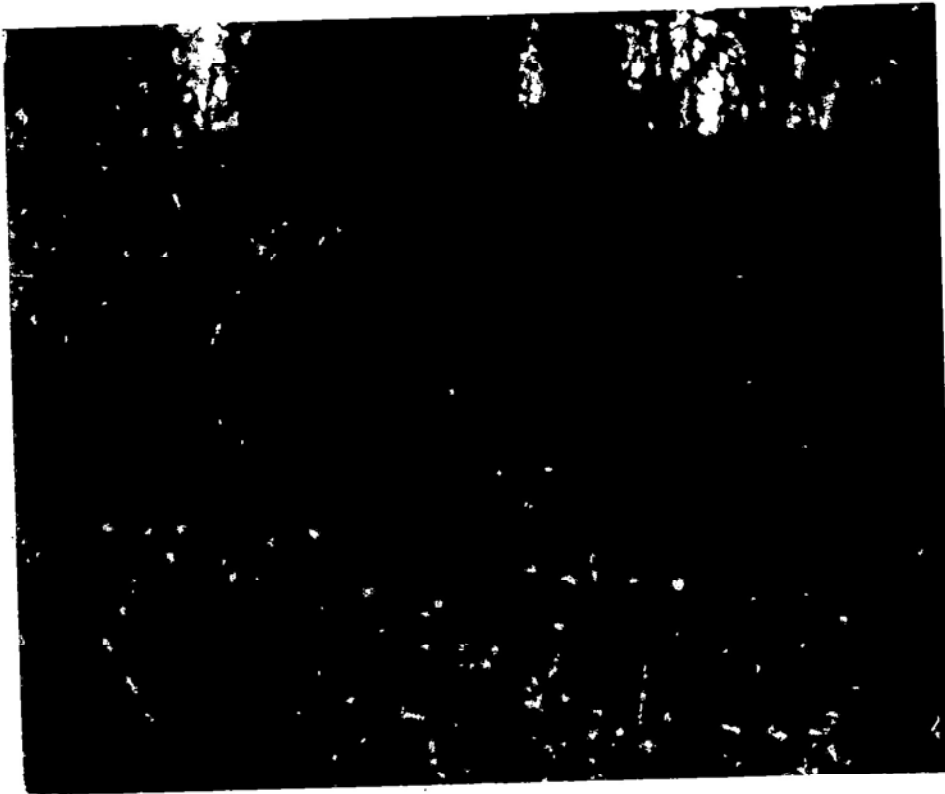


PHOTO LOCATION MAP  
 NOCKAMIXON TOWNSHIP - ROUTE #563  
 ( NO SCALE )

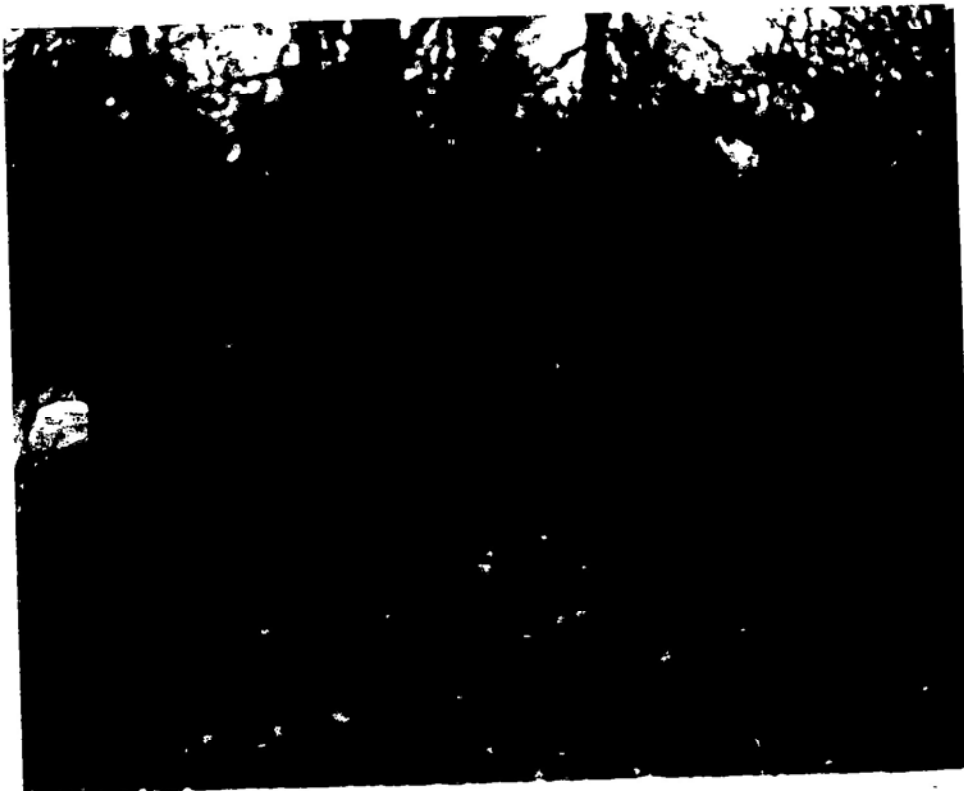
FIGURE 5.2



—  
—  
— Photograph Log 5.4 —  
—



— PHOTO #1 - Three upright drums on adjacent —  
— property to the site —  
—



— PHOTO #2 - Several tilted drums on the adjacent —  
— property to the site —  
—

Route 563 + 412 DRUM STORAGE  
F3-8810-11  
PA-2111

R, P,  
Photo 1

THREE UPRIGHT DRUMS ON  
ADJACENT PROPERTY TO SITE

~~Ruth Manning~~  
Ruth MANNING

1305  
11/1/88

Route 563 + 412 DRUM STORAGE  
F3-8816-11  
PA-2111

R, P,  
Photo 2

SEVERAL TILTED DRUMS ON  
ADJACENT PROPERTY TO SITE

~~Ruth Manning~~  
Ruth MANNING

1306  
11/1/88



PHOTOS #3,4 - Panoramic view of the site

Route 563+412 DEAN SIDEWALK  
F3-8810-11  
PA-2111

R1, P3  
Photo 3

RUIN SIDEWALK

R1, P4  
Photo 4

PAV OF SIDE

PAV OF SIDE

RUIN SIDEWALK  
PA-2111

1309  
11/1/88  
RUIN SIDEWALK

1309  
11/1/88



— PHOTO #5 - Scrap metal pile near the site —  
—  
—



— PHOTO #6 - Tires and scrap metal near the site —  
—  
—



Route 563 + 412. DRUM STORAGE  
F3-8810-11  
PA-2111

R, P<sub>5</sub>  
photo 5

SCRAP METAL PILE NEAR SITE

Ruth Manning  
Ruth Manning

1315  
11/1/88

Route 563 + 412 DRUM STORAGE  
F3-8810-11  
PA-2111

R, P<sub>7</sub>  
photo 6

TIRES + SCRAP METAL NEAR SITE

Ruth Manning  
Ruth Manning

1317  
11/1/88



**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 - SITE INFORMATION AND ASSESSMENT**

**I. IDENTIFICATION**

01 STATE 03 SITE NUMBER

PA 2483

**II. SITE NAME AND LOCATION**

01 SITE NAME (Legal, common, or descriptive name of site)

Nockamixon Township Route 563

02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER

Located on a dirt road that connects Routes 412 and 563

03 CITY

Ottsville

04 STATE

PA

05 ZIP CODE

06 COUNTY

Bucks

07 COUNTY CODE

017

08 CONG DIST

DIST

09 COORDINATES LATITUDE

40° 30' 00" N

LONGITUDE

75° 11' 30" N

10 DIRECTIONS TO SITE (Starting from nearest public road)

Take Route 611 north to Route 412 north, then take Route 563 south. Turn right at the first dirt road; follow the dirt road to the corner. The site is located at the corner of the dirt road.

**III. RESPONSIBLE PARTIES**

01 OWNER (If known)

Roxanne Schulburger-Miller

02 STREET (Business, mailing, residential)

10 West Water Street

03 CITY

Hellertown

04 STATE

PA

05 ZIP CODE

18055

06 TELEPHONE NUMBER

215, 838-6472

07 OPERATOR (If known and different from owner)

08 STREET (Business, mailing, residential)

09 CITY

10 STATE

PA

11 ZIP CODE

18055

12 TELEPHONE NUMBER

( )

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL☐ C. STATE☐ D. COUNTY☐ E. MUNICIPAL☐ F. OTHER:

(Specify)

☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: / /

MONTH DAY YEAR

☐ B. UNCONTROLLED WASTE SITE (CERCLA 103(a))

DATE RECEIVED: / /

MONTH DAY YEAR

☒ C. NONE**IV. CHARACTERIZATION OF POTENTIAL HAZARD**

01 ON SITE INSPECTION

☒ YES

DATE

11, 1, 88

☐ NO

MONTH DAY YEAR

BY (Check all that apply)

☒ A. EPA☐ B. EPA CONTRACTOR☐ C. STATE☐ D. OTHER CONTRACTOR☐ E. LOCAL HEALTH OFFICIAL☐ F. OTHER:

(Specify)

CONTRACTOR NAME(S): NUS Corporation, FIT 3

02 SITE STATUS (Check one)

☐ A. ACTIVE☒ B. INACTIVE☐ C. UNKNOWN

03 YEARS OF OPERATION

Early 1970s

1980

☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

The site contained approximately 50 drums. The drums were removed in 1980. It is not known what the drums contained. A soil sample taken on site in 1981 contained concentrations of TCE and PCE.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

The Bucks County Health Department collected home well samples in the area. Concentrations of TCE and PCE were found in seven home well samples in the area near the site.

**V. PRIORITY ASSESSMENT**

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH

(Inspection required promptly)

☒ B. MEDIUM

(Inspection required)

☐ C. LOW

(Inspect on time available basis)

☐ D. NONE

(No further action needed, complete current disposition form)

**VI. INFORMATION AVAILABLE FROM**

01 CONTACT

F Paul Racette

02 OFF (Agency/ Organization)

U.S. EPA

03 TELEPHONE NUMBER

(215) 597-1073

04 PERSON RESPONSIBLE FOR ASSESSMENT

Ruth Manning

05 AGENCY

NUS Corp.

06 ORGANIZATION

FIT 3

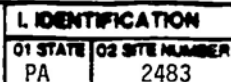
07 TELEPHONE NUMBER

(215) 687-9510

08 DATE

11/29/88

MONTH DAY YEAR



<input checked="" type="checkbox"/> A TOXIC	<input checked="" type="checkbox"/> E SOLUBLE	<input checked="" type="checkbox"/> H <sub>1</sub> HIGHLY VOLATILE
<input checked="" type="checkbox"/> B CORROSIVE	<input checked="" type="checkbox"/> F INFECTIOUS	<input checked="" type="checkbox"/> J EXPLOSIVE
<input checked="" type="checkbox"/> C RADIOACTIVE	<input checked="" type="checkbox"/> G FLAMMABLE	<input checked="" type="checkbox"/> K REACTIVE
<input checked="" type="checkbox"/> D PERSISTENT	<input checked="" type="checkbox"/> H IGNITABLE	<input checked="" type="checkbox"/> L INCOMPATIBLE
		<input checked="" type="checkbox"/> M NOT APPLICABLE

## EPA FORM 2070-12 (7-81)



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
PA 2483

H. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 3,170 04 NARRATIVE DESCRIPTION  
Home well samples from the area of the site contained concentrations of TCE of 110 to 150 ppb. Groundwater is used exclusively for potable purposes. There are no municipal water supplies in the area. A population count of the area estimated 3,170 residents living within 3 miles of the site.

01 ☐ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION  
None reported or observed

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION  
None reported or observed

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION  
None reported or observed

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION  
None reported or observed

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED  
03 AREA POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION  
Soil samples collected by the <sup>(Acre)</sup>Bucks County Health Department on site contained concentrations of PCE and TCE. The drums were contained to an area of approximately 1 acre.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 3,170 04 NARRATIVE DESCRIPTION  
There is no municipal water in the area. Home well samples contain concentrations of TCE. A population count of 3,170 people within a 3 mile radius of the site rely on groundwater for potable sources.

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 WORKERS POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION  
None reported or observed

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: 3/81) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 3,170 04 NARRATIVE DESCRIPTION  
Several home wells have been identified as containing concentrations of TCE, which could potentially have been caused by the site. People within a 3-mile radius of the site rely on groundwater for potable sources.



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
PA 2483

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

None reported or observed

01 ☐ K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (Include names of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

None reported or observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

None reported or observed

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Spills, runoff, standing liquids, leaking drums)

02 ☐ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 3,170

04 NARRATIVE DESCRIPTION

When drums were on site, several witnesses saw them leaking onto the soil. Sample results of a soil sample contained concentrations of TCE and PCE. A population count of the area estimated 3,170 residents in the 3 miles of the site.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

None reported or observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

None reported or observed

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED

According to the Bucks County Health Department approximately 50 drums were stored illegally on this site.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None reported or observed

III. TOTAL POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

NUS FIT 3 Preliminary Assessment, Route 563 & 412 drum storage- TDD No. F3-8810-11. Bucks County Health Department Field Notes, February 1981, and Sample Results.



SECTION 6

**6.0 REFERENCES FOR SECTIONS 1.0 THROUGH 5.0**

1. United States Geological Survey. Riegelsville, Pennsylvania Quadrangle, 7.5 Minute Series. Topographic Map. 1956, photorevised 1973. Combined with Bedminster, Pennsylvania Quadrangle, 7.5 Minute Series. Topographic Map. 1957, photorevised 1983; and Cumberville, Pennsylvania Quadrangle, 7.5 Minute Series. Topographic Map. 1955, photorevised 1973.
2. NUS Corporation, FIT 3. Preliminary assessment; site visit. TDD No. F3-8810-11, November 1, 1988.
3. Schulburger-Miller, Roxanne, Site Owner, with Ruth Manning, NUS FIT 3. Meeting. November 1, 1988.
4. Mr. Miller, Neighbor of Site, with Ruth Manning, NUS FIT 3. Meeting. November 1, 1988.
5. Null, David J., Bucks County Health Department. Water Quality Report. No. 86TI-38-22/30-LA HALL. February 17, 1981.
6. NUS Corporation, FIT 3. Home Well Surveys. November 1, 1988.
7. Pennsylvania Department of Environmental Resources. Title 25 Rules and Regulations, Part 1. Subpart C. Protection of National Resources Article II, Water Resources Chapter 93, Water Quality Standards. October 8, 1979.
8. Subitzky, S., Editor. Late Triassic Newark Group, North Central New Jersey and Adjacent Pennsylvania and New York. Field Trip No. 4. In Geology of Selected Areas in New Jersey and Eastern Pennsylvania and Guidebook of Excursions. New Brunswick, New Jersey: Rutgers University Press, 1969.
9. Spencer, E.W. The Appalachian Orogen. In Introduction to the Structure of the Earth. New York, New York: McGraw Hill, Incorporated, 1977.
10. Pennsylvania Department of Internal Affairs, Topographic and Geologic Survey. Ground Water Resources of Bucks County, Pennsylvania. Bulletin W11, 1955.

11. Pennsylvania Department of Environmental Resources, Bureau of Topographic and Geologic Survey. Engineering Characteristics of the Rocks of Pennsylvania. Environmental Geology Report 1, 1982.
12. United States Department of Agriculture, Soil Conservation Service. Soil Survey of Bucks and Philadelphia Counties, Pennsylvania. July 1975.
13. United States Environmental Protection Agency. Uncontrolled Hazardous Waste Site System. Mean Annual Lake Evaporation Map. 1983.
14. United States Department of Commerce. Rainfall Frequency Atlas of the United States. United States Government Printing Office, Washington D.C. Technical Paper No. 40, 1963.
15. United States Department of Commerce. Climatology of the United States. Local Climatological Data. Annual Summary with Comparative Data, Philadelphia, Pennsylvania. 1983.
16. NUS Corporation, FIT 3. A Hazard Ranking System for Revere Chemical Company. TDD No. F3-8402-01, April 24, 1984.
17. NUS Corporation, FIT 3. Sampling plan. TDD No. F3-8806-11, August 16, 1988.
18. Kulp, Charles J., United States Department of the Interior, Fish and Wildlife Service, to Garth Glenn, NUS FIT 3. Correspondence. December 2, 1988.



## APPENDIX A



# COUNTY OF BUCKS

## DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 - 215-343-2800

### FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 - 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 - 536-6500

### County Commissioners

ANDREW L. WARREN, *Chairman*

ELAINE P. ZETTICK

CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.

*Director*

### Board of Health

Paul W. McIlvaine, M.D., *Chairman*

John L. Stover, Jr., *Vice Chairman*

Mrs. Charles Benhayon

Francis L. Rickards, Jr., D.O.

Joseph J. Ryan

September 9, 1981

Mr. Pauline Schulberger  
R.D. #1 Box 218 Rt. 563  
Ottsville, Pa. 18942

Dear Mrs. Schulberger:

On August 27, 1981 a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are Trichloroethylene (TCE) 150 parts per billion (ppb), and Perchloroethylene (PCE) 2.2 parts per billion (ppb).

If your sample result is above 75 ppb TCE or 20 ppb PCE, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE or PCE. You may reduce your TCE/PCE exposure by one of these methods; drink bottled water, install a line by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb TCE and 20 ppb PCE is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

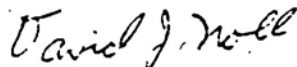
EPA also indicated that long term (70 years) consumption of 2 liters of water daily containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million. At a level of 35.5 ppb the carcinogenic risk is one in one hundred thousand.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb or the PCE concentration is between 3.55 and 20 ppb, you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling water 5 to 10 minutes.)

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,



David J. Noll  
Division of Environmental Engineering

DJN/dh  
cc: Regional Sanitarian Manager  
Central Files - DER

-78

Lab Number 7902

DEPARTMENT OF ENVIRONMENTAL RESOURCES

BUREAU OF WATER QUALITY MANAGEMENT

**Date Received**

8/28/81

2 NETWORK SAMPLE

WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

ESTABLISHMENT		CASE				FACILITY				COLL NUMBER					
Shulberger		Residence								121029					
COUNTY		MUNICIPALITY		PROGRAM		COLL NAME				TYPE TR		STD ANALYSIS			
Bucks		Nockamixon Twp.		WS		D. Noll				0		10			
CARD (3)		ID CODE (ALL CARDS) 4-16				LATITUDE 4-10		LONGITUDE 11-18		DATE 19-24		TIME 25-28		KIND 29	
1 2		Conty	Mun	Est	Case	Fac				M	D	Y	hr	Min	
		Not	Set			WAMTS		0		08	27	81	12	20	4
SS-Q 30-34		AGENCY 35-37		SAMPLE NUMBER 38-43				STREAM NAME 44-57				RELATIVE POINT 58			
		28		40121029											
LABORATORY TO:										ADDITIONAL LAB ANALYSES					
FIELD DESCRIPTION WHERE SAMPLE TAKEN										Outside Nose Bibb					
CUSTODY LOG										Rte 563					
Date Shipped										TCE/PCE					
Date															
Seal No.															
Sealed by:															
Seal Conditions:										QUALITATIVE REPORT					

## QUANTITATIVE RESULTS

[illegible]

ANALYST

**SIGNATURE**

DATE \_\_\_\_\_

CENTRAL OFFICE



8611-38-228



# COUNTY OF BUCKS

## DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 - 215-343-2800

### FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 - 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 - 536-6500

#### County Commissioners

ANDREW L. WARREN, *Chairman*  
ELAINE P. ZETTICK  
CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.  
*Director*

#### Board of Health

Paul W. McIlvaine, M.D., *Chairman*  
John L. Stover, Jr., *Vice Chairman*  
Mrs. Charles Benhayon  
Francis L. Rickards, Jr., D.O.  
Joseph J. Ryan

April 6, 1981

Mr. James Atkins  
R.D. #1 Box 223 Rt 563  
Ottsville, Pa. 18942

Dear Mr. Atkins:

On March 24, 1981 a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are Trichloroethylene (TCE) 130 parts per billion (ppb), and Perchloroethylene (PCE) 20 parts per billion (ppb).

If your sample result is above 75 ppb TCE or 20 ppb PCE, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE or PCE. You may reduce your TCE/PCE exposure by one of these methods; drink bottled water, install a line by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb TCE and 20 ppb PCE is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

Page 2  
James Atkins  
April 6, 1981

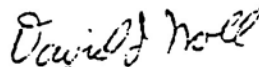
EPA also indicated that long term (70 years) consumption of 2 liters of water daily containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million. At a level of 35.5 ppb the carcinogenic risk is one in one hundred thousand.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb or the PCE concentration is between 3.55 and 20 ppb, you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling water 5 to 10 minutes.)

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,



David J. Noll  
Division of Environmental Engineering

DJN/dh

cc: Regional Sanitarian Manager  
Central Files DER



STREAM/RANDGM SAMPLE

DEPARTMENT OF ENVIRONMENTAL RESOURCES

Date Received 3/25/91

BUREAU OF WATER QUALITY MANAGEMENT

WATER OR WASTE QUALITY REPORT - SPECIAL ANALYSES

ESTABLISHMENT Atkins Residence			CASE			FACILITY Well			COLL NUMBER 652						
COUNTY Bucks			MUNICIPALITY Hockamixon Twp W.S.			PROGRAM D.No.11			TYPE TR 0			STD ANALYSIS 10			
CARD 131		ID CODE (ALL CARDS) 4-16				LATITUDE 4-10		LONGITUDE 11-18		DATE 19 24		TIME 25 28		KIND 29	
1 2		Cnty	Mun	T	Est	Case	Fac			M	D	Y	Hr	Min	
		NORTH FOR WAINES							0				0324	31	1407
USGS-Q 30-34		AGENCY 35-37		SAMPLE NUMBER 38-43				STREAM NAME 44-57				RELATIVE POINT 58			
		B C H		0121652											

TRIBUTARY TO:

### ADDITIONAL LAB ANALYSES

FULL DESCRIPTION WHERE SAMPLE TAKEN

**- CUSTODY LOG**

**Low Shipped**

Date \_\_\_\_\_

Legal Seal No.

received by:

**Legal Seal Conditions:**

Atkins kitchen sink.

R.D. 1 Rt. 563 OTTsville, Pa.

TCE

$$\rho^i \in$$

111 TCE

## QUALITATIVE REPORT

## QUANTITATIVE RESULTS

[illegible]

ANALYST

**SIGNATURE**

DATE 3/31/81

CENTRAL OFFICE

1 STREAM/RANDOM SAMPLE		2 NETWORK SAMPLE		BACTERIOLOGICAL ANALYSES				LAB. NO. 15901		DATE RECEIVED 6-4-81	
ESTABLISHMENT Jim Atkins residence				CASE		FACILITY well				COLL. NUMBER 830	
COUNTY Bucks		MUNICIPALITY Nockamixon Twp.		PROGRAM W. R.		COLL. NAME D. Nail		TYPE TR. 5		Std. Analysis	
CARD (3)		ID CODE (ALL CARDS) 4-16		LATITUDE 4-10		LONGITUDE 11-18		DATE 19-24 M D Y 06 03 81		TIME 25-28 HR Min 13 36	
1 2		Cnty	Mun	T	Est	Case	Fac			KIND 29 3	
USGS-Q 30-34		AGENCY 35-37 2 8 4		Sample No. 38-43 0121830		STREAM NAME 44-57		Rel Pt 58 Type 59-60 04 03 01		Source 61-62 Reason 63-64	
Composite Samples:		P/U 65		T/S 66		Alq 67-68		Cond. 80		Flow:	
										STATION DESCRIPTION: Drinking Tap-kitchen sink	
Field Analysis										R.P.#1 AL 563	
Cl. Tot. mg/l (50060)										Total Coliforms (Per 100 ml) (3150) 1 0 0 0 0	
Cl. Free mg/l (50064)										Fecal Coliforms (Per 100 ml) (3161)	
COMMENTS										Total Fecal Strep (Per 100 ml) (3167)	
										Total Plate Count (Per ml) (31751)	
CENTRAL OFFICE		ANALYZED BY		DATE		6/5		<input type="checkbox"/> SAMPLE Exceeds Time Limits of Standard Methods for Valid Analysis			

### QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS
			(SHOW DECIMAL POINTS ON LINES)
111-TCE	ug/l		0008.6
TCE	"		0096.-
PCE	"		0017.-

ANALYST J. H. Malgoueres SIGNATURE DATE 6/5/81

CENTRAL OFFICE

8611-38-22C



# COUNTY OF BUCKS

## DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 — 215-343-2800

### FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 — 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 — 536-6500

### County Commissioners

ANDREW L. WARREN  
ELAINE P. ZETTICK, Chairperson  
CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.  
Director

### Board of Health

Paul W. McIlvaine, M.D., Chairman  
John Jacoby, Vice Chairman  
Mrs. Charles Benhayon  
Francis L. Rickards, Jr., D.O.  
Joseph J. Ryan

April 7, 1981

Ms. Mary Rocco  
Box 210, RD#1, Rt. 563  
Ottsville, PA 18942

Dear Ms. Rocco:

On March 24, 1981, a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The result of your water sample is:

Trichloroethylene (TCE) 1.6 Parts per Billion

The Environmental Protection Agency has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at a level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand.

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,

*David J. Noll*

David J. Noll  
Division of Environmental Engineering

DJN/rad

cc: Ms. Dolores Robinson  
Regional Sanitarian Manager  
Central Files - DER

ESTABLISHMENT Mans Rocco Residence										CASE Well										COLL NUMBER 121650																																																	
COUNTY Bucks										MUNICIPALITY Nockamixon Twp										PROGRAM W.G.										COLL NAME D. Noil										TYPE TR D										STD ANALYS ID																			
CARD (3) 1 2										ID CODE (ALL CARDS) 4-16 NOT FOR WATERS										LATITUDE 4-10 0										LONGITUDE 11-18 0324										DATE 19-24 81										TIME 25-28 1310										KINC 29 6									
USGS-Q 30-34										AGENCY 35-37 BCH										SAMPLE NUMBER 38-43 01121650										STREAM NAME 44-57										RELATIVE POINT 58																													
TRIBUTARY TO:																														ADDITIONAL LAB ANALYSES																																							
FULL DESCRIPTION WHERE SAMPLE TAKEN Rocco R.D. 1 Rt. 563 OTTsville Pa.																														TCE																																							
CUSTODY LOG How Shipped Date																														Porch Tap PCE																																							
Legal Seal No.																														111 TCE																																							
Received by:																																																																					
Legal Seal Condition:																																																																					
QUALITATIVE REPORT																																																																					

## QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS <small>(SHOW DECIMAL POINTS ON LINES)</small>
TCE	<i>ug/l</i>	<div style="display: flex;"><div style="width: 20px; height: 20px;"></div><div style="width: 20px; height: 20px;"></div><div style="width: 20px; height: 20px;"></div><div style="width: 20px; height: 20px;"></div><div style="width: 20px; height: 20px;"></div><div style="width: 20px; height: 20px;"></div></div>	<div style="display: flex;"><div style="width: 20px; height: 20px; text-align: center;">0</div><div style="width: 20px; height: 20px; text-align: center;">0</div><div style="width: 20px; height: 20px; text-align: center;">0</div><div style="width: 20px; height: 20px; text-align: center;">1</div><div style="width: 20px; height: 20px; text-align: center;">.</div><div style="width: 20px; height: 20px; text-align: center;">6</div></div>
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**ANALYST**

**SIGNATURE**

DATE \_\_\_\_\_

CENTRAL OFFICE

8611-38-22D



# COUNTY OF BUCKS

## DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 - 215-343-2800

### FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 - 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 - 536-6500

#### County Commissioners

ANDREW L. WARREN

ELAINE P. ZETTICK, Chairperson

CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.

Director

#### Board of Health

Paul W. McIlvaine, M.D., Chairman

John Jacoby Vice Chairman

Mrs. Charles Benhayon

Francis L. Rickards, Jr., D.O.

Joseph J. Ryan

April 6, 1981

Mr. W. P. Kellam  
Box 221, Rt. 563, RD#1  
Ottsville, PA 18942

Dear Mr. Kellam:

On March 24, 1981, a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are:

Trichloroethylene (TCE) 7.9 Parts per billion (ppb)

Perchloroethylene (PCE) 0.6 Parts per billion (ppb)

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE. You may reduce your TCE exposure by one of these methods; drink bottled water, install a line-by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.



Mr. W. P. Kellam  
Ottsville, PA  
Page 2

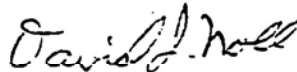
Long term (70 years) consumption of water containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling 5 to 10 minutes).

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,



David J. Noll  
Division of Environmental Engineering

DJN/rad

cc: Regional Sanitarian Manager  
Central Files - DER

Lab Number 114600

Date Received 3/25/81

ESTABLISHMENT				CASE				FACILITY				COLL NUMBER				
W.P. Kellam residence								Well				654				
COUNTY		MUNICIPALITY		PROGRAM		COLL NAME		TYPE TR		STD ANALYSIS						
Bucks		Nockamixon Twp		W.R.		D. Nail		0		10						
CARD (3)		ID CODE (ALL CARDS) 4-16				LATITUDE 4-10		LONGITUDE 11-18		DATE 19-24		TIME 25-28		KIND 29		
<div style="border: 1px solid black; padding: 5px;"> <div style="position: relative; height: 40px;"> <span style="position: absolute; top: 0; left: 0;">1</span> <span style="position: absolute; bottom: 0; right: 0;">2</span> </div> </div>		City	Mun	T	Est	Case	Fac				M	D	Y	Hr	Min	
		NOT FOR WAMSIS							0				0324	1425	6	
USGS-Q 30-34		AGENCY 35-37		SAMPLE NUMBER 38-43				STREAM NAME 44-57				RELATIVE POINT 58				
		BCH		0121654												

CONTRIBUTOR TO:		ADDITIONAL LAB ANALYSES	
FULL DESCRIPTION WHERE SAMPLE TAKEN		TCE	
CUSTODY LOG		PCE	
How Shipped	Date	111 TCE	
Legal Seal No.			
Received by:			
Legal Seal Conditions:			
QUALITATIVE REPORT			

## QUANTITATIVE RESULTS

[illegible]**ANALYST**

**SIGNATURE**

DATE \_\_\_\_\_

CENTRAL OFFICE

8611-38-22 E



# COUNTY OF BUCKS

## DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 — 215-343-2800

### FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 — 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 — 536-6500

#### County Commissioners

ANDREW L. WARREN

ELAINE P. ZETTICK, Chairperson

CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.

Director

#### Board of Health

Paul W. McIlvaine, M.D., *Chairman*

John Jacoby, *Vice Chairman*

Mrs. Charles Benhayon

Francis L. Rickards, Jr., D.O.

Joseph J. Ryan

April 7, 1981

Mr. William Stever  
RD#1, Box 222, Rt. 563  
Ottsville, PA 18942

Dear Mr. Stever:

On March 24, 1981, a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are:

Trichloroethylene (TCE) 17 Parts per Billion (ppb)

Perchloroethylene (PCE) 0.9 Parts per Billion (ppb)

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE. You may reduce your TCE exposure by one of these methods; drink bottled water, install a line-by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

Mr. William Stever  
Ottsville, PA 18942  
Page 2

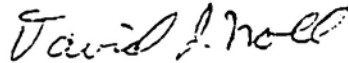
Long Term (70 years) consumption of water containing PCE at the level of 3.55ppb will increase the carcinogenic risk to one in one million.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb, you can determine what the long term carcinogenic risk is for your water. To lower that risk, you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling 5 to 10 minutes).

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,



David J. Noll  
Division of Environmental Engineering

DJN/rad

cc: Regional Sanitarian Manager  
Central Files - DER

## QUANTITATIVE RESULTS

[illegible]

DATE 3/31/81



8611-38-22F



# COUNTY OF BUCKS

## DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 - 215-343-2800

### FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 - 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 - 536-6500

### County Commissioners

ANDREW L. WARREN

ELAINE P. ZETTICK, Chairperson

CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.

Director

### Board of Health

Paul W. McIlvaine, M.D., *Chairman*

John Jacoby, *Vice Chairman*

Mrs. Charles Benhayon

Francis L. Rickards, Jr., D.O.

Joseph J. Ryan

April 7, 1981

Mr. J. F. McLaughlin  
RD#1, Box 219, Rt. 563  
Ottsville, PA 18942

Dear Mr. McLaughlin:

On March 24, 1981, a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are:

Trichloroethylene (TCE) 43 Parts per Billion (ppb)

Perchloroethylene (PCE) 1.0 Parts per Billion (ppb)

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE. You may reduce your TCE exposure by one of these methods; drink bottled water, install a line-by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the concentrations below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb, the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

Mr. J. F. McLaughlin  
Ottsville, PA 18942  
Page 2

Long term (70 years) consumption of water containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling 5 to 10 minutes).

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,



David J. Noll  
Division of Environmental Engineering

DJN/raā

cc: Regional Sanitarian Manager  
Central Files - DER

3/25/8

WATER OR WASTE QUALITY REPORT - SPECIAL ANALYSES

## QUANTITATIVE RESULTS

ANALYST

J. H. Maljean  
SIGNATURE

DATE \_\_\_\_\_

3/31/8

CENTRAL OFFICE

86 11-38-224



# COUNTY OF BUCKS

## DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 - 215-343-2800

### FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 - 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 - 536-6500

#### County Commissioners

ANDREW L. WARREN, *Chairman*  
ELAINE P. ZETTICK  
CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.  
*Director*

#### Board of Health

Paul W. McIlvaine, M.D., *Chairman*  
John L. Stover, Jr., *Vice Chairman*  
Mrs. Charles Benhayon  
Francis L. Rickards, Jr., D.O.  
Joseph J. Ryan

April 6, 1981

Ms. Cook  
B6A Rt. 563  
Ottsville, Pa. 18942

Dear Ms. Cook:

On March 11, 1981 a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are Trichloroethylene (TCE) 110 parts per billion (ppb), Perchloroethylene (PCE) 2.6 parts per billion (ppb).

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE. You may reduce your TCE exposure by one of these methods; drink bottled water, install a line by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

Long term (70 years) consumption of water containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million.

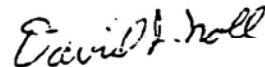
Page 2  
Ms. Cook  
April 6, 1981

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling water 5 to 10 minutes).

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,



David J. Noll  
Division of Environmental Engineering

DJN/dh  
cc: Regional Sanitarian Manager  
Central Files DER  
V. Panak

ESTABLISHMENT Cook residence						CASE						FACILITY						COLL NUMBER 598											
COUNTY Bucks						MUNICIPALITY Hockamixon Twp I.W.						PROGRAM D. Noll						TYPE TR 0						STD ANALYSIS 10					
CARD 131		ID CODE (ALL CARDS) 4-16				LATITUDE 4-10				LONGITUDE 11-18				DATE 19-24				TIME 25-28				KIND 29							
1 2		Cnty	Mun.	T	Est	Case	Fac									M	D	Y	Hr	Min									
		NOT FOR WAIVES														0	3	11	21	1	3	0	5	6					
USGS Q 30-34						AGENCY 35-37				SAMPLE NUMBER 38-43				STREAM NAME 44-57				RELATIVE POINT 58											
						B	C	H	D	I	Z	I	S	9	8														
TRIBUTARY TO:																		ADDITIONAL LAB ANALYSES											
FULL DESCRIPTION WHERE SAMPLE TAKEN																		Bathtub sink B6A RT. 563 TCE											
CUSTODY LOG																		PCE											
How Shipped																		111 TCE											
Date																													
Legal Seal No.																													
received by:																													
Legal Seal Conditions:																													
QUALITATIVE REPORT																													

## QUANTITATIVE RESULTS

[illegible]

### ANALYST

ANALYST J. H. Malgou SIGNATURE

DATE \_\_\_\_\_

DATE 3/23/81

CENTRAL OFFICE



86 11-38-22H



# COUNTY OF BUCKS

## DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 - 215-343-2800

### FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 - 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 - 536-6500

### County Commissioners

ANDREW L. WARREN, *Chairman*  
ELAINE P. ZETTICK  
CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.  
*Director*

April 6, 1981

### Board of Health

Paul W. McIlvaine, M.D., *Chairman*  
John L. Stover, Jr., *Vice Chairman*  
Mrs. Charles Benhayon  
Francis L. Rickards, Jr., D.O.  
Joseph J. Ryan

Mr. Lawrence Comly  
Box 213A Rt. 563  
Ottsville, Pa. 18942

Dear Mr. Comly:

On February 25, 1981 a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The result of your water sample is: Trichloroethylene (TCE) 12 parts per billion (ppb).

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE. You may reduce your TCE exposure by one of these methods; drink bottled water, install a line by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

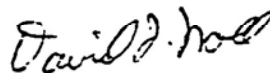
Mr. Lawrence Comly  
Ottsville, Pa. 18942  
Page 2  
April 6, 1981

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling 5 to 10 minutes).

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,



David J. Noll  
Division of Environmental Engineering

DJN/dh  
cc: Regional Sanitarian Manager  
Central File

ESTABLISHMENT Lawrence <del>Comly</del> Comly residence										FACILITY well										COLL NUMBER 565																																							
MUNICIPALITY Bucks										PROGRAM Nockamixon Twp W.R. R. No 11										TYPE TR 0										STD ANALYSIS 10																													
CARD 131 1 2										ID CODE (ALL CARDS) 4-18 Cnty Mun T Est Case Fac NOT FOR NAMES										LATITUDE 4-10 0										LONGITUDE 11-18 022581										DATE 19-24 11334										TIME 25-28 KIND 29 4									
USGS-Q 30-34										AGENCY 35-37 BCH										SAMPLE NUMBER 38-43 0121565										STREAM NAME 44-57										RELATIVE POINT 58																			
RIBUTARY TO:																														ADDITIONAL LAB ANALYSES																													
FULL DESCRIPTION WHERE SAMPLE TAKEN Outside Tap at Comly well																														<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> TCE PCE 111 TCE </div>																													
CUSTODY LOG																																																											
ow Shipped Date																																																											
Legal Seal No.																																																											
eceived by:																																																											
Legal Seal Condition:																														QUALITATIVE REPORT																													

111-TCF & PCE - none detected

## QUANTITATIVE RESULTS

ANALYSIS.		UNITS:	ANALYSIS CODE	RESULTS <small>(SHOW DECIMAL POINTS ON LINES)</small>												
TCE		ug/l	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>							<table border="1"><tr><td>0</td><td>0</td><td>1</td><td>2</td><td>.</td><td>-</td></tr></table>	0	0	1	2	.	-
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MAR 8 1967			<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>							<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
BURNS CO. DEPT. OF HEALTH			<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>							<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
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**ANALYST.**

**SIGNATURE**

DATE \_\_\_\_\_

CENTRAL OFFICE

8611-38-227



# COUNTY OF BUCKS

## DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 - 215-343-2800

### FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 - 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 - 536-6500

### County Commissioners

ANDREW L. WARREN, *Chairman*  
ELAINE P. ZETTICK  
CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.  
*Director*

### Board of Health

Paul W. McIlvaine, M.D., *Chairman*  
John L. Stover, Jr., *Vice Chairman*  
Mrs. Charles Benhayon  
Francis L. Rickards, Jr., D.O.  
Joseph J. Ryan

May 4, 1981

Mr. Robert Spare  
1008 Willowpenn Drive  
Southampton, Pa. 18966

Dear Mr. Spare:

On April 9, 1981, a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are:

Trichloroethylene (TCE)	140 parts per billion (ppb)
Perchloroethylene (PCE)	1.8 parts per billion (ppb)

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce the exposure to this excessive concentration of TCE. You may reduce the TCE exposure by one of these methods; drink bottled water, install a line-by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the concentrations below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb, the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

Mr. Robert Spare  
1108 Willowpenn Drive  
Southampton, Pa. 18966  
Page 2  
May 4, 1981


Long term (70 years) consumption of water containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling water 5 to 10 minutes.)

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,



David J. Noll  
Division of Environmental Engineering

DJN/dh  
cc: Regional Sanitarian Manager  
Central Files - DER

Lab Number

25Y 0.78

☐ W ☐ R STREAM/RANDOM SAMPLE

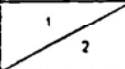
DEPARTMENT OF ENVIRONMENTAL RESOURCES

BUREAU OF WATER QUALITY MANAGEMENT

Date Received 4/10/81

1	2	NETWORK SAMPLE
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
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98	98	98
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100	100	100

## WATER OR WASTE QUALITY REPORT - SPECIAL ANALYSES

ESTABLISHMENT Andy Woodward residence						FACILITY Well						COLL NUMBER 717																
COUNTY Bucks				MUNICIPALITY Nockmixon Twp W. R.				PROGRAM D. Noll				TYPE TR 0				STD ANALYSIS 10												
CARD 13i		ID CODE (ALL CARDS) 4-16								LATITUDE 4-10				LONGITUDE 11-18				DATE 19-24				TIME 25-28				K <sup>1</sup> '9		
		Cnty	Mun	T	Est.	Case	Fac																					
		Not For Warrants								0				040931				1240				4						
USGS-Q 30-34				AGENCY 35-37				SAMPLE NUMBER 38-43				STREAM NAME 44-57				RELATIVE POINT 58												
				BCH				0121				717																
TRIBUTARY TO:												ADDITIONAL LAB ANALYSES																
FULL DESCRIPTION WHERE SAMPLE TAKEN												OUTSIDE Trap.																
CUSTODY LOG												RT. 563																
How Shipped												OTTSDALE, Pa.																
Date												12942																
Legal Seal No.												TCE																
												PCE																
												111 TCE																
Received by:																												
Legal Seal Condition:																												
QUALITATIVE REPORT																												

## QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
III-TCE	ug/l		0005.8
TCE -	"		0140.-
PCE	"		0001.8

ANALYST

J. H. Maljoe  
SIGNATURE

DATE \_\_\_\_\_

4/17/81

CENTRAL OFFICE



3/12/81

WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

III - TCE + PCE - none detected

[illegible]

3/7 3/8

CENTRAL OFFICE

Date Received

2/26/81

RECEIPTARY TO:		ADDITIONAL LAB ANALYSES	
FULL DESCRIPTION WHERE SAMPLE TAKEN		Raw well from pressure Tank (after chlorination)	
CUSTODY LOG		TCE	
How Shipped	Date	PCE	
Legal Seal No.		III TCE	
Received by:		Hall res. Box 212 Pittsville, Mo.	
Legal Seal Condition:		QUALITATIVE REPORT	

other peaks present - no I.D.

## QUANTITATIVE RESULTS

[illegible]

ANALYST

J. H. Malvern  
SIGNATURE

DATE \_\_\_\_\_

2/27/81

**FACILITY SAMPLE**

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES

Lab Number 02749

☐ W    ☒ R    STREAM/RANDOM SAMPLE

Date Received 2/29/01

1	2	NETWORK SAMPLE
---	---	----------------

## WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

ESTABLISHMENT Larry Hall residence										CASE										FACILITY Well										COLL NUMBER 564																																							
BUCKS										MUNICIPALITY Hockamixon Twp. W.R.										PROGRAM D.M.O.II										COLL NAME										TYPE TR 4+7										STD ANALYSIS 10																			
CARD (3)										ID CODE (ALL CARDS) 4-16										LATITUDE 4-10										LONGITUDE 11-18										DATE 19-24										TIME 25-28										KIND 29									
<div>1</div> <div>2</div>										Cnty Mun T Est Case Fac																														M D Y										Hr Min										3									
USGS-Q 30-34										AGENCY 35-37										SAMPLE NUMBER 38-43										STREAM NAME 44-57										RELATIVE POINT 58																													
LIBRARY TO:										B C H 0121564																																																											
FULL DESCRIPTION WHERE SAMPLE TAKEN										CUSTODY LOG										Date										Additional Lab Analyses																																							
Shipped										Date										Finished water after carbon filter										TCE																																							
Legal Seal No.																				From kitchen tap.										PCE																																							
Received by:																														111 TCE																																							
Legal Seal Condition:																																																																					
QUALITATIVE REPORT																																																																					

III - TCE & TCE + PCE - none detected

## QUANTITATIVE RESULTS

[illegible]

ANALYST J. H. Nalpers  
SIGNATURE

DATE 2/27/81

CENTRAL OFFICE

REV 7-78

 $\vdash W$ 

STREAM/RANDOM SAMPLE

DEPARTMENT OF ENVIRONMENTAL RESOURCES

BUREAU OF WATER QUALITY MANAGEMENT

Date Received \_\_\_\_\_

3/12/81

1	2	NETWORK SAMPLE
1	1	1
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1	99	1
1	100	1

## WATER OR WASTE QUALITY REPORT - SPECIAL ANALYSES

ESTABLISHMENT <b>Larry Hall Complaint</b>										FACILITY										COLL NUMBER <b>600</b>																																																																					
COUNTY <b>Bucks</b>										MUNICIPALITY <b>Hockamixon Twp</b>										PROGRAM <b>F.W. D. Noll</b>										COLL NAME										TYPE TR <b>0</b>										STD ANALYSIS <b>50</b>																																							
CARD (3) 1 2										ID CODE (ALL CARDS: 4 16) Cntry Mun T Est Case Fax										LATITUDE 4-10										LONGITUDE 11 18										DATE 19-24 M D Y										TIME 25 28 Hr Min										KIND 29																													
USGS-Q 30-34										AGENCY 35-37 <b>BCH</b>										SAMPLE NUMBER 38-43 <b>0121600</b>										STREAM NAME 44-57										RELATIVE POINT 58																																																	
TRIBUTARY TO:																														ADDITIONAL LAB ANALYSES																																																											
FULL DESCRIPTION WHERE SAMPLE TAKEN <b>Soil sample from field near Hall res.</b>																														TCE																																																											
CUSTODY LOG how Shipped Date																														at site of previous drum storage area.																														PCE																													
Legal Seal No.																														111 TCE																																																											
Received by:																																																																																									
Legal Seal Condition:																																																																																									
QUALITATIVE REPORT																																																																																									

## QUANTITATIVE RESULTS

[illegible]

ANALYST

J. H. Maljvac  
SIGNATURE

DATE \_\_\_\_\_

3/23/8

CENTRAL OFFICE

3-24-81

7.4  
654

17  
653

712  
1030  
152

1030  
152

Lat  
Noc

27 563  
70  
313

left card

left card  
110  
150  
43  
151  
Paulene  
Schulberger  
some well  
Trader  
(left card)

12  
comley

50  
L Hall

1

72412

150-110  
some well

R. Miller  
1.0

col sample  
TUE 260  
TUE 210  
3 ms/kg

**NUS CORPORATION  
SUPERFUND DIVISION**

**QUALITY ASSURANCE RECORDS LOG**

IIO/TOD/WA <b>P1-8611-38</b>		SITE: BUCKS CO. SITE DISCOVERIES	SITE NO.:	OFFICE: PIT III, Wayco, Pennsylvania	PROJECT NO.:	PAGE 1 OF 1
IIO/TOD/WA MANAGER: MIKE SNYDER		DOCUMENT CUSTODIAN: ALEXANDRA MUSCHELL				

Docket Number	Date Entered	RECORD DESCRIPTION	STORAGE LOCATION	FILE NO.
8611-38-22A	3-30-87	9/9/81 Letter: From Pastime Gate David J. Noll, Bucks Co. DOH, to Pauline Schulberger, OHSville PA resident. Concerning water testing results (2 pgs) with testing results (3 pgs total).	All records are located in the PIT III file room unless otherwise noted.	All records are located in TDD file unless otherwise noted.
8611-38-22B	3-30-87	4/16/81 Letter: From David J. Noll, Bucks Co. DOH, to James Atkins, OHSville PA resident. Concerning water testing results (2 pgs) with testing results (4 pgs total).		
8611-38-22C	3-30-87	4/17/81 Letter: From David J. Noll, Bucks Co. DOH, to Mary Rocco, OHSville, PA, concerning water testing results (1 pg) with testing results (2 pgs total).		
8611-38-22D	3-30-87	4/16/81 Letter: From David J. Noll, Bucks Co. DOH, to William Stover, OHSville PA, concerning water testing results (2 pgs) with testing results (3 pgs total).		
8611-38-22E	3-30-87	4/17/81 Letter: From David J. Noll, Bucks Co. DOH, to J. McLaughlin, OHSville, PA resident. Concerning water testing results (2 pgs) with testing results (3 pgs total).		
8611-38-22F	3-30-87	4/16/81 Letter: From David J. Noll, Bucks Co. DOH, to Mrs. Cook, OHSville, PA, concerning water testing results (2 pgs) with testing results (3 pgs total).		
8611-38-22G	3-30-87	4/16/81 Letter: From David J. Noll, Bucks Co. DOH, to Mary Anne Connelly, OHSville, PA, resident. Concerning water testing results (2 pgs) with testing results (3 pgs total).		
8611-38-22H	3-30-87	2/11/81 Field Action Report (36-24 HALL): By David J. Noll, PA, on Larry Hall, OHSville, PA, case (2 pgs) with testing results (3 pgs total) (5 pgs total).		
8611-38-22I	3-30-87	5/1/81 Letter: From David J. Noll, Bucks Co. DOH, to Mr. Robert Spore, Schuylkill PA resident. Concerning water testing results on the Schuylkill residence, OHSville PA (2 pgs) with testing results (3 pgs total).		
8611-38-22J	3-30-87	Nuckamixon TCE Sample list, with sampling location maps (4 pgs total).		
8611-38-22K	3-30-87	3/21/81 (date received) water testing results for Mary Miller residence, Nuckamixon sup. PA (1 pgs)		
8611-38-22L	3-30-87			



## APPENDIX B

# HOME WELL SURVEY

B

Home Owner's Name: Giuseppe Hall

Date: \_\_\_\_\_

Address: Box 212 Rt 1

Home Phone: [REDACTED]

OTTISVILLE

Work Phone: \_\_\_\_\_

1. Please describe the type of home well you presently utilize:  
(Check those which apply)

☐ Dug well

☒ Drilled by a rig; if so, please identify company (name, address, and phone):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

☐ Other (describe) \_\_\_\_\_

- 1a. Please estimate the following: Year installed 1950's

Date of last service 1982

Company who serviced (name, address, and phone): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Please provide the following measurements of your well:

a. Total depth: \_\_\_\_\_

b. Well diameter: \_\_\_\_\_

3. Please describe the casing material used in your well:

a. Composition

☐ Iron

☐ PVC

☐ Galvanized

☐ Terra Cotta

☐ Other - Please

Specify (if known)

b. Length (if known): \_\_\_\_\_

## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

Date: \_\_\_\_\_

4. Please describe, if known, any screening material used in your well:

a. Length of screen: \_\_\_\_\_

b. Depth of screen in well: \_\_\_\_\_

5. Please indicate, if known, the depth to the groundwater in your well (from the surface):  
\_\_\_\_\_

6. Please indicate the composition of home plumbing (pipes) in your system:

\_\_\_\_\_ Iron \_\_\_\_\_ PVC \_\_\_\_\_ Galvanized \_\_\_\_\_ Lead  
☒ Other (describe): Copper

7. Please describe the water pump used in your system:

a. Location of the pump

\_\_\_\_\_ Inside the well (submersible pump); Depth in well: \_\_\_\_\_

\_\_\_\_\_ Outside the well (indicate location): \_\_\_\_\_

b. Type of pump

Branch (if known): \_\_\_\_\_

Capacity (gallons per minute): \_\_\_\_\_

c. Estimate hours of pump operation per day: \_\_\_\_\_

d. Is storage tank used: \_\_\_\_\_ Yes \_\_\_\_\_ No

Type (material) \_\_\_\_\_ Capacity \_\_\_\_\_

8. a. Do you regularly or have you ever added chemicals directly to your well?

(i.e., chlorine, clorox, etc.) \_\_\_\_\_ Yes \_\_\_\_\_ No

If yes, date last added: \_\_\_\_\_ Approximate amount added \_\_\_\_\_

Compound (brand name): \_\_\_\_\_

Carbonated filter

## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

Date: \_\_\_\_\_

- b. Please describe any type of water treatment you are currently using (check those which apply):

\_\_\_\_\_ Filtration

\_\_\_\_\_ Other (explain)

Type: carbon filter

water purifier

☒ Water Softeners

Indicate Brand: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

9. Please indicate any testing that has been done on your water:

Date of testing: \_\_\_\_\_

Name of individual(s) responsible for testing: DLHD

10. Well Use: ☒ Drinking \_\_\_\_\_ Other: \_\_\_\_\_

11. Do you notice color, taste, or odor problems with well water? ☒ Yes \_\_\_\_\_ No  
If yes, identify: \_\_\_\_\_

Do you notice water supply problems? \_\_\_\_\_ Yes ☒ No

If yes, when: \_\_\_\_\_ how often: \_\_\_\_\_

12. Please indicate the type(s) of wastewater system used (check):

Sewer Line \_\_\_\_\_

Septic Tank ☒

Cesspool \_\_\_\_\_

Drain Field \_\_\_\_\_

Distance to Well \_\_\_\_\_

13. We may be taking water samples from many area homes in the near future. If your well is chosen for sampling, would you be willing to allow our NUS representatives to sample your well? Sampling involves collecting water from one of your indoor or outdoor spigots.

☒ Yes, I will allow my well to be sampled.

\_\_\_\_\_ No, I will not allow my well to be sampled.

## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

Date: \_\_\_\_\_

If yes, please indicate the time of day which would be convenient for us to sample.

\_\_\_\_\_ Morning      \_\_\_\_\_ Afternoon      \_\_\_\_\_ Evening

14. In the space below, please furnish a rough sketch of your property, indicating the location of your well and on-lot wastewater system, if applicable. Also indicate the location of the spigot you would prefer us to sample.

C

# HOME WELL SURVEY

Home Owner's Name: Miller

Date: \_\_\_\_\_

Address: RD 1 BOX 213 Route 583

Home Phone: [REDACTED]

OH 4302116

Work Phone: \_\_\_\_\_

1. Please describe the type of home well you presently utilize:  
(Check those which apply)

\_\_\_\_\_ Dug well

\_\_\_\_\_ Drilled by a rig; if so, please identify company (name, address, and phone):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ Other (describe) \_\_\_\_\_

- 1a. Please estimate the following: Year installed 1965

Date of last service 1981

Company who serviced (name, address, and phone): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. Please provide the following measurements of your well:

a. Total depth: 240

b. Well diameter: 6-8

3. Please describe the casing material used in your well:

a. Composition

\_\_\_\_\_ Iron

\_\_\_\_\_ PVC

? Galvanized

\_\_\_\_\_ Terra Cotta

\_\_\_\_\_ Other - Please

Specify (if known)

b. Length (if known): 20-20'



## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

Date: \_\_\_\_\_

4. Please describe, if known, any screening material used in your well:

a. Length of screen: \_\_\_\_\_

b. Depth of screen in well: \_\_\_\_\_

5. Please indicate, if known, the depth to the groundwater in your well (from the surface):

260'

6. Please indicate the composition of home plumbing (pipes) in your system:

\_\_\_\_\_ Iron    ☒ PVC    \_\_\_\_\_ Galvanized    \_\_\_\_\_ Lead  
\_\_\_\_\_ Other (describe): Copper

7. Please describe the water pump used in your system:

a. Location of the pump

☒ Inside the well (submersible pump); Depth in well: \_\_\_\_\_

\_\_\_\_\_ Outside the well (indicate location): \_\_\_\_\_

b. Type of pump

Branch (if known): \_\_\_\_\_

Capacity (gallons per minute): 38

c. Estimate hours of pump operation per day: 2 hr.

d. Is storage tank used: ☒ Yes    \_\_\_\_\_ No

Type (material) blow line    Capacity 30 gal  
Copper

8. a. Do you regularly or have you ever added chemicals directly to your well?

(i.e., chlorine, clorox, etc.) \_\_\_\_\_ Yes    ☒ No

If yes, date last added: \_\_\_\_\_ Approximate amount added \_\_\_\_\_

Compound (brand name): \_\_\_\_\_

## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

Date: \_\_\_\_\_

- b. Please describe any type of water treatment you are currently using (check those which apply):

\_\_\_\_\_ Filtration

\_\_\_\_\_ Other (explain)

Type: \_\_\_\_\_

☒ Water Softeners

Indicate Brand: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9. Please indicate any testing that has been done on your water:

Date of testing: 1981

Name of individual(s) responsible for testing: BLH7

10. Well Use: ☒ Drinking \_\_\_\_\_ Other: \_\_\_\_\_

11. Do you notice color, taste, or odor problems with well water? \_\_\_\_\_ Yes ☒ No

If yes, identify: \_\_\_\_\_

Do you notice water supply problems? \_\_\_\_\_ Yes ☒ No

If yes, when: \_\_\_\_\_ how often: \_\_\_\_\_

12. Please indicate the type(s) of wastewater system used (check):

Sewer Line \_\_\_\_\_

Septic Tank ☒

Cesspool \_\_\_\_\_

Drain Field \_\_\_\_\_

Distance to Well \_\_\_\_\_

13. We may be taking water samples from many area homes in the near future. If your well is chosen for sampling, would you be willing to allow our NUS representatives to sample your well? Sampling involves collecting water from one of your indoor or outdoor spigots.

☒ Yes, I will allow my well to be sampled.

\_\_\_\_\_ No, I will not allow my well to be sampled.

## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

Date: \_\_\_\_\_

If yes, please indicate the time of day which would be convenient for us to sample.

\_\_\_\_\_ Morning

\_\_\_\_\_ Afternoon

\_\_\_\_\_ Evening

14. In the space below, please furnish a rough sketch of your property, indicating the location of your well and on-lot wastewater system, if applicable. Also indicate the location of the spigot you would prefer us to sample.

HOME WELL SURVEY

D

Home Owner's Name: Kasenica

Date: \_\_\_\_\_

Address: RD #2 Box 211

Home Phone: [REDACTED]

OTTAVILLE

Work Phone: \_\_\_\_\_

1. Please describe the type of home well you presently utilize:  
(Check those which apply)

       Dug well

X Drilled by a rig; if so, please identify company (name, address, and phone):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

       Other (describe) \_\_\_\_\_

- 1a. Please estimate the following: Year installed 1950

Date of last service 1984

Company who serviced (name, address, and phone): Copper Plumbing  
\_\_\_\_\_  
\_\_\_\_\_

2. Please provide the following measurements of your well:

a. Total depth: \_\_\_\_\_

b. Well diameter: \_\_\_\_\_

3. Please describe the casing material used in your well:

a. Composition

       Iron        PVC        Galvanized

       Terra Cotta

       Other - Please

Specify (if known)

b. Length (if known): \_\_\_\_\_

## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

Date: \_\_\_\_\_

4. Please describe, if known, any screening material used in your well:

a. Length of screen: \_\_\_\_\_

b. Depth of screen in well: \_\_\_\_\_

5. Please indicate, if known, the depth to the groundwater in your well (from the surface):

\_\_\_\_\_

6. Please indicate the composition of home plumbing (pipes) in your system:

\_\_\_\_\_ Iron

\_\_\_\_\_ PVC

☒

Galvanized

\_\_\_\_\_ Lead

\_\_\_\_\_ Other (describe): \_\_\_\_\_

7. Please describe the water pump used in your system:

a. Location of the pump

☒

Inside the well (submersible pump); Depth in well: \_\_\_\_\_

\_\_\_\_\_ Outside the well (indicate location): \_\_\_\_\_

b. Type of pump

Branch (if known): \_\_\_\_\_

Capacity (gallons per minute): \_\_\_\_\_

c. Estimate hours of pump operation per day: 2

d. Is storage tank used: \_\_\_\_\_ Yes \_\_\_\_\_ No

Type (material) \_\_\_\_\_ Capacity \_\_\_\_\_

8. a. Do you regularly or have you ever added chemicals directly to your well?

(i.e., chlorine, clorox, etc.) \_\_\_\_\_ Yes ☒ No

If yes, date last added: \_\_\_\_\_ Approximate amount added \_\_\_\_\_

Compound (brand name): \_\_\_\_\_

## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

Date: \_\_\_\_\_

- b. Please describe any type of water treatment you are currently using (check those which apply):

\_\_\_\_\_ Filtration

\_\_\_\_\_ Other (explain)

Type: \_\_\_\_\_

\_\_\_\_\_ Water Softeners

Indicate Brand: \_\_\_\_\_

9. Please indicate any testing that has been done on your water:

Date of testing: \_\_\_\_\_

Name of individual(s) responsible for testing: BCHD

10. Well Use: X Drinking \_\_\_\_\_ Other: \_\_\_\_\_

11. Do you notice color, taste, or odor problems with well water? \_\_\_\_\_ Yes \_\_\_\_\_ No

If yes, identify: when rain

gravelly

Do you notice water supply problems? X Yes \_\_\_\_\_ No

If yes, when: \_\_\_\_\_ how often: \_\_\_\_\_

low pressure

12. Please indicate the type(s) of wastewater system used (check):

Sewer Line \_\_\_\_\_

Septic Tank X

Cesspool \_\_\_\_\_

Drain Field \_\_\_\_\_

Distance to Well \_\_\_\_\_

13. We may be taking water samples from many area homes in the near future. If your well is chosen for sampling, would you be willing to allow our NUS representatives to sample your well? Sampling involves collecting water from one of your indoor or outdoor spigots.

X

Yes, I will allow my well to be sampled.

\_\_\_\_\_

No, I will not allow my well to be sampled.



## HOME WELL SURVEY

Home Owner's Name: \_\_\_\_\_

Date: \_\_\_\_\_

If yes, please indicate the time of day which would be convenient for us to sample.

\_\_\_\_\_ Morning

\_\_\_\_\_ Afternoon

\_\_\_\_\_ Evening

14. In the space below, please furnish a rough sketch of your property, indicating the location of your well and on-lot wastewater system, if applicable. Also indicate the location of the spigot you would prefer us to sample.