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R-585-3-4-27
SITE INSPECTION OF
A.I.W. FRANK CORPORATION
PREPARED UNDER

TDD NO. F3-8402-06
EPA NO. PAD 004351003
CONTRACT NO. 68-01-6699

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

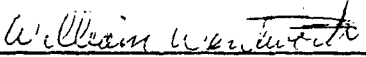
SEPTEMBER 19, 1984

NUS CORPORATION
SUPERFUND DIVISION

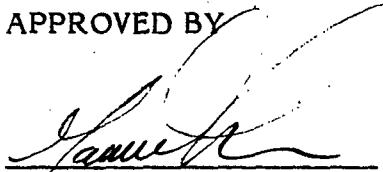
SUBMITTED BY


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ENV. TECHNICIAN

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APPROVED BY


GARTH GLENN
MANAGER, FIT III

AR100001

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SECTION 1

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Betz-Converse-Murdoch, Inc. (BCM) was engaged by the law firm of Kittredge, Kaufman, and Donley to develop and implement a program of groundwater and soil investigations at the closed A.I.W. Frank site. The program consisted of installing 3 monitoring wells, analyzing groundwater samples from 5 monitoring wells (including 2 existing on-site wells), and analyzing soil samples obtained from borings at the site.

The major contaminants found in the groundwater were TCE and 1,1,1-trichloroethane. The core soil samples taken indicated a consistent decrease in TCE concentration with depth. All soil samples below 6 feet exhibited TCE concentrations of less than 0.1 mg/kg (100 ppb), but the TCE in the Mid-County well (off-site well) was above 700 ppb. The PA DER recommended that continued monitoring of observations wells 1 through 5 was necessary, and that monitoring should be done on a semi-annual basis in an attempt to isolate the source and correct the problem.

The Continental Refrigerator Corporation presently owns the property and uses the facility for manufacturing refrigerators.

SECTION 2

AR100007

2.0 THE SITE

2.1 Location

The A.I.W. Frank site is located at 717 E. Lincoln Highway (Route 30), in Exton, Chester County, Whiteland Township, Pennsylvania.

2.2 Site Layout

The site is approximately 17 acres in size. The manufacturing facility and offices are located in a building toward the front of the property, and a large warehouse complex occupies the middle portion. A shed, located east of the factory, was used to store a waste solvent tank and a number of 55-gallon drums containing liquid chemicals. Another shed, located in front of the property, is being torn down.

2.3 Ownership History

A.I.W. Frank Corporation owned the site from 1962 until the fall of 1981 when the company declared bankruptcy. The Continental Refrigerator Corporation is the present owner of the site. Continental purchased the property in October of 1983 and manufactures refrigerators at the facility.

2.4 Site Use History

During their ownership, A.I.W. Frank produced and stored styrofoam cups and plates at the site. Continental Refrigerator presently owns the property and manufactures refrigerators at the site.

2.5 Permit and Regulatory Action History

According to Frank Holmes of the PA DER Norristown office, no records of permits or regulatory actions are available.

2.6 Remedial Action To Date

All contaminated soil was placed in 27 drums, along with approximately 20 other drums which contained ammoniated materials, solidified ink, dilute acids, and roofing materials. The drums were stored in the northwest corner of Building No. 1 (see appendix B, figure 2). All the drums are tightly sealed, stacked 4 drums high and protected from outside weather.

The small storage area in the northeast corner of Building No. 1 (marked with a large X on figure 2 in appendix B) contains a drum which is half full of PCB. This drum is tightly sealed, secured by a locked fence and covered by a roof. The area near the tin shed still contains contaminated soil, and is due to be removed from the site within a few weeks. Four underground tanks are located at the site and contain some crude oil. Continental Refrigerator is looking for a buyer for this oil.

Sampling of the monitoring wells, which is done on a semi-annual basis, was conducted on March 10, 1984, by Suburban Water Testing. The results of this sampling are not currently available.

SECTION 3

AR100010

3.0 ENVIRONMENTAL SETTING

3.1 Surface Waters

According to the U.S.G.S. Malvern 7.5 Minute Quadrangle, Valley Creek, located approximately 1,000 feet north of the site, is the nearest surface water body and is flood prone.

3.2 Geology and Soils

The facility is located on bedrock units of the Conestoga and Ledger formations. The Conestoga Formation is made up of micaceous limestone and dolomite. The Ledger Formation is made up of light gray, massive, pure, crystalline dolomite, which is siliceous in part (USDA Soil Conservation Survey, Atlas of Prelim. Geol. Quad, Maps of PA., BCM report). The soils of the site have been largely reworked or covered with asphalt and concrete foundation pads. According to the Soil Survey of Chester County and Delaware County, Pennsylvania, natural soil in the area is of the Conestoga Series. The Conestoga Series is described as deep, well drained soils developed from Micaceous limestone. The composition of these soils is silt loam to clay loam and where undisturbed, it can be up to 6 feet deep.

According to well logs from the BCM Report (appendix C - 1.5), 4-6 feet of rust colored clay was encountered north and northwest of the site, overlying gray-blue limestone. The well drilled on the west side of the site was installed in 44 feet of clay material.

3.3 Groundwaters

Based upon monitoring well logs produced by BCM, Inc., the depth to groundwater ranges from 10 to 22 feet. The groundwater flow is radial from the site, which lies on a groundwater divide. Groundwater is utilized as a potable water source in the vicinity of the site. However, the monitoring wells installed by BCM, Inc., maximum depth 50 feet, yielded little water. The 2 wells north and northwest of the site, which were installed as open borings in the limestone, yielded less than 5 gpm. The on-site monitoring well, screened through clays from 23 feet to 43 feet, yielded less than 10 gpm.

1.0 INTRODUCTION

1.1 Authorization

NUS Corporation performed this work under Environmental Protection Agency Contract No. 68-01-6699. This specific report was prepared in accordance with Technical Directive Document No. F3-8402-06 for the A.I.W. Frank Corporation site located in Chester County, Pennsylvania.

1.2 Scope of Work

NUS FIT III was tasked to conduct a site visit and prepare a desk-top site inspection report based on the site visit, data provided by the Pennsylvania Department of Environmental Resources (PA DER) and any other available information. Using all available information NUS FIT III was also tasked to complete a Hazard Ranking System for the subject site. The HRS will be submitted under separate cover.

1.3 Summary

After a site visit was performed and the data and reports supplied by EPA and PA DER were reviewed, NUS FIT III completed a desk-top site inspection report.

The A.I.W. Frank site is located at 717 E. Lincoln Highway (Route 30), in Exton, Chester County, Pennsylvania. A.I.W. Frank had operated their facilities at the site since 1962 to produce styrofoam cups and plates. These operations ceased in the fall of 1981 after A.I.W. Frank declared bankruptcy. During their operation, A.I.W. Frank used trichloroethylene (TCE) and 1,1,1-trichloroethane (1,1,1-TCE) to clean their machinery. Based on their investigations, the PA DER believes that improper handling and disposal of solvents during the active life of the facility has resulted in groundwater and soil contamination. A groundwater monitoring program, conducted in 1982 by the PA DER, using a number of private water supply wells, determined a pattern of elevated TCE levels. These levels indicated that a source area was at or near the A.I.W. Frank site.

There are approximately 20 domestic home wells located within a 1/4-mile radius of the site; some of which use carbon filters as a purification process for their drinking water.

The Uwchlan Township Municipal Authority has 6 wells that serve parts of Exton and West Whiteland and Uwchlan Townships. Two of these wells are located off Route 100, north of Route 30 on Shoen Road; 2 are located north of Route 30 off Woodford Road; and the other 2 are located in Downingtown off Bell Tavern Road. All wells are located within a 2-mile radius of the site and serve an estimated 4,800 residences. The West Whiteland Township Municipal Authority has 3 wells serving people in Whiteland Crest and parts of Exton. These wells are located approximately 1 mile northwest of the A.I.W. Frank site, on Swedesford Road near the entrance to the Exton Mall, and serve an estimated 1,055 residences, for a total of approximately 5,855 people served of municipal water supply in the area of the site.

3.8 Critical Environments

There are no known critical environments in the area of the site.

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(R:d)

SECTION 4

AR100014

4.0 WASTE TYPES AND QUANTITIES

Presently there are 27 drums of contaminated soil stored in the northwest corner of Building No. 1. The soil itself was discovered in a pile in the middle of the floor of Building No. 1 when Continental Refrigerator obtained ownership of the site. It is not known where the soil originated. Along with the soil drums, approximately 20 other drums containing ammoniated material, chlorinated material, solidified ink, dilute acids, and roofing materials are present (see appendix C - 1.4). All the drums were stacked 4 high and placed in a corner inside the building to insure protection from the outside weather. One drum containing PCBs is stored in a small storage area on the northeast side of Building No. 1. This building is shown on figure 2 in appendix B and is marked with a large X. The storage area is locked, surrounded by a fence, and covered by a tin roof.

The area surrounding the tin shed, which was the former location of the waste solvent tank, still contains contaminated soil. Improper handling and disposal of the solvents during the active life of the facility is believed to have caused this contamination. Exact amounts of the improperly-handled wastes are not known. There are also 4 underground tanks present on the site which contain varying amounts of crude oil.

Bid proposals for the removal of all drums, the crude oil, and the contaminated soil are presently being reviewed by the Continental Refrigerator Corporation.

SECTION 5

AR100016

5.0 FIELD TRIP REPORT

5.1 Summary

On Tuesday, March 20, 1984, FIT III members James Strickland and Bruce Pluta conducted a site visit to the A.I.W. Frank site, which is presently owned by the Continental Refrigerator Corporation.

The weather during the site visit was breezy and sunny with a temperature of approximately 55°F.

5.2 Persons Contacted

5.2.1 Prior to Field Trip

Frank Holmes
Solid Waste Specialist
PA DER
Norristown, PA 19403
215-270-1920

Herman Miron
Project Manager
Continental Refrigerator Corp.
717 E. Lincoln Highway
Exton, PA 19341
215-524-0400

5.2.2 At The Site

Herman Miron
Project Manager
Continental Refrigerator Corp.
717 E. Lincoln Highway
Exton, PA 19341
215-524-0400

5.3 Site Observations

- o FIT III arrived on site at 10:30 AM.
- o No HNU readings above background levels were recorded throughout the site.
- o Approximately 50 drums were observed in the northwest corner of Building No. 1; 27 of which contained contaminated soil. The remaining drums contained ammoniated material, solidified ink, dilute acids, roofing materials, and chlorinated materials. All drums were tightly sealed, stacked 4 high, and protected from the outside weather.

- o The area has limited personnel access, and the entire building is locked at night.
- o The small storage area in the northeast corner of Building No. 1 contains a drum approximately half full of PCBs. The storage area is secured with a locked gate and covered by a tin roof.
- o The area near the shed, which was the former location of the waste solvent tank, still contains contaminated soil, and has no barrier to prevent direct contact.
- o Four underground tanks are still present at the site and contain some crude oil. Continental Refrigerator is presently looking for a buyer for this oil.
- o Three monitoring wells were observed. Well no. 5 contained a locked steel cap. No HNU readings above background were recorded when the cap was removed.
- o FIT III completed the site visit and departed the site at approximately 12:00 PM.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION III SITE NUMBER (to be assigned by HQ) PAD004351003

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME A.I.W. Frank Corporation		B. STREET (or other identifier) Route 30 (717 E. Lincoln Hwy.)			
C. CITY Exton	D. STATE PA	E. ZIP CODE 19341	F. COUNTY NAME Chester		
G. SITE OPERATOR INFORMATION					
1. NAME Continental Refrigerator Corporation			2. TELEPHONE NUMBER 215-524-0400		
3. STREET 717 E. Lincoln Hwy.		4. CITY Exton		5. STATE PA	6. ZIP CODE 19341
H. REALTY OWNER INFORMATION (if different from operator of site)					
1. NAME N/A			2. TELEPHONE NUMBER		
3. CITY		4. STATE		5. ZIP CODE	

I. SITE DESCRIPTION A.I.W. Frank Corp. operated the site until the fall of 1981 when the company went bankrupt. They manufactured styrofoam cups and plates.

J. TYPE OF OWNERSHIP

1. FEDERAL 2. STATE 3. COUNTY 4. MUNICIPAL 5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)	B. APPARENT SERIOUSNESS OF PROBLEM			
	<input type="checkbox"/> 1. HIGH	<input type="checkbox"/> 2. MEDIUM	<input checked="" type="checkbox"/> 3. LOW	<input type="checkbox"/> 4. NONE

C. OPERATOR INFORMATION

1. NAME James Stricklad	2. TELEPHONE NUMBER 215-687-9510	3. DATE (mo., day, & yr.) March 21, 1984
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III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION			
1. NAME James Strickland		2. TITLE Environmental Technician	
3. ORGANIZATION NUS Corporation FIT III			4. TELEPHONE NO. (area code & no.)

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Bruce Pluta	NUS Corporation FIT III	215-687-9510
Frank Holmes	PA DER, Norristown Office	215-270-1920
Herman Miron	Continental Refrigerator Corp.	215-524-0400

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Herman Miron	Project Manager 215-524-0400	Continental Refrigerator Corp. 717 E. Lincoln Hwy. Exton, PA

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III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
A.I.W. Frank	215-524-0400	717 E. Lincoln Hwy., Exton PA	TCE, 1,1,1-TCE

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
N/A			

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
N/A		

G. DATE OF INSPECTION

H. TIME OF INSPECTION

I. ACCESS GAINED BY: (credentials must be shown in all cases)

(mo., day, & yr.)
March 20, 1984

1030 hrs.

 1. PERMISSION 2. WARRANT

J. WEATHER (describe)

Clear, breezy, temperatures about 55°F.

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER	X	No FIT III sampling was done.	
b. SURFACE WATER		Sampling done by Betz-Converse-Murdoch, Inc.	
c. WASTE		Results are presently available.	
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL	X		
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
HNU	throughout the site	No readings above background levels
mini alert	throughout the site	No readings above background levels

IV. SAMPLING INFORMATION (continued)

PHOTOS
 1. TYPE OF PHOTOS
 a. GROUND b. AERIAL
 2. PHOTOS IN CUSTODY OF:
 None taken by NUS FIT III

SITE MAPPED?
 YES. SPECIFY LOCATION OF MAPS: NUS FIT III Site Inspection Report

COORDINATES
 1. LATITUDE (deg.-min.-sec.) 40° 01' 50"
 2. LONGITUDE (deg.-min.-sec.) 75° 36' 04"

V. SITE INFORMATION

SITE STATUS
 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)
 2. INACTIVE (Those sites which no longer receive wastes.)
 3. OTHER (specify):

IS GENERATOR ON SITE?
 1. NO 2. YES (specify generator's four-digit SIC Code):

AREA OF SITE (in acres) 17 acres
 D. ARE THERE BUILDINGS ON THE SITE?
 1. NO 2. YES (specify): 1 large warehouse, 1 manufacturing/office building, and 2 small sheds.

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

A. TRANSPORTER	B. STORER	C. TREATER	D. DISPOSER
<input checked="" type="checkbox"/> 1. RAIL	<input type="checkbox"/> 1. PILE	<input type="checkbox"/> 1. FILTRATION	<input type="checkbox"/> 1. LANDFILL
<input type="checkbox"/> 2. SHIP	<input type="checkbox"/> 2. SURFACE IMPOUNDMENT	<input type="checkbox"/> 2. INCINERATION	<input type="checkbox"/> 2. LANDFARM
<input checked="" type="checkbox"/> 3. BARGE	<input type="checkbox"/> 3. DRUMS	<input type="checkbox"/> 3. VOLUME REDUCTION	<input type="checkbox"/> 3. OPEN DUMP
<input checked="" type="checkbox"/> 4. TANK	<input type="checkbox"/> 4. TANK, ABOVE GROUND	<input type="checkbox"/> 4. RECYCLING/RECOVERY	<input type="checkbox"/> 4. SURFACE IMPOUNDMENT
<input type="checkbox"/> 5. PIPELINE	<input type="checkbox"/> 5. TANK, BELOW GROUND	<input type="checkbox"/> 5. CHEM./PHYS./TREATMENT	<input type="checkbox"/> 5. MIDNIGHT DUMPING
<input type="checkbox"/> 6. OTHER (specify):	<input type="checkbox"/> 6. OTHER (specify):	<input type="checkbox"/> 6. BIOLOGICAL TREATMENT	<input type="checkbox"/> 6. INCINERATION
		<input type="checkbox"/> 7. WASTE OIL REPROCESSING	<input type="checkbox"/> 7. UNDERGROUND INJECTION
		<input type="checkbox"/> 8. SOLVENT RECOVERY	<input type="checkbox"/> 8. OTHER (specify):
		<input type="checkbox"/> 9. OTHER (specify):	

SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for.

1. STORAGE 2. INCINERATION 3. LANDFILL 4. SURFACE IMPOUNDMENT 5. DEEP WELL
 6. CHEM/BIO/PHYS TREATMENT 7. LANDFARM 8. OPEN DUMP 9. TRANSPORTER 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

WASTE TYPE
 1. LIQUID 2. SOLID 3. SLUDGE 4. GAS

WASTE CHARACTERISTICS
 1. CORROSIVE 2. IGNITABLE 3. RADIOACTIVE 4. HIGHLY VOLATILE
 5. TOXIC 6. REACTIVE 7. INERT 8. FLAMMABLE
 9. OTHER (specify): solvents

WASTE CATEGORIES
 1. Are there any other categories of wastes available? Specify items such as manifests, inventories, etc. below.

Yes, Continental Refrigerator Corp. - inventory of drums

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VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT	
		Unknown		150		25		27			
UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE	
				gallons		gallons		55 gallon drums			
<input checked="" type="checkbox"/>	(1) PAINT, PIGMENTS	<input checked="" type="checkbox"/>	(1) OILY WASTES	<input checked="" type="checkbox"/>	(1) HALOGENATED SOLVENTS	<input checked="" type="checkbox"/>	(1) ACIDS	<input checked="" type="checkbox"/>	(1) FLYASH	<input checked="" type="checkbox"/>	(1) LABORATORY, PHARMACEUT.
	(2) METALS SLUDGES	<input type="checkbox"/>	(2) OTHER(specify):	<input type="checkbox"/>	(2) NON-HALOGNTD. SOLVENTS	<input type="checkbox"/>	(2) PICKLING LIQUORS	<input type="checkbox"/>	(2) ASBESTOS	<input type="checkbox"/>	(2) HOSPITAL
	(3) ROTW			<input type="checkbox"/>	(3) OTHER(specify):	<input type="checkbox"/>	(3) CAUSTICS	<input type="checkbox"/>	(3) MILLING/MINE TAILINGS	<input type="checkbox"/>	(3) RADIOACTIVE
	(4) ALUMINUM SLUDGE			<input type="checkbox"/>		<input type="checkbox"/>	(4) PESTICIDES	<input type="checkbox"/>	(4) FERROUS SMELTING WASTES	<input type="checkbox"/>	(4) MUNICIPAL
	(5) OTHER(specify):			<input checked="" type="checkbox"/>		<input type="checkbox"/>	(5) DYES/INKS	<input type="checkbox"/>	(5) NON-FERROUS SMLTG. WASTES	<input type="checkbox"/>	(5) OTHER(specify):
				<input checked="" type="checkbox"/>		<input type="checkbox"/>	(6) CYANIDE	<input type="checkbox"/>	(6) OTHER(specify):	<input type="checkbox"/>	
				<input type="checkbox"/>	(7) PHENOLS			TCE contaminated soils			
				<input type="checkbox"/>	(8) HALOGENS						
				<input checked="" type="checkbox"/>	(9) PCB						
				<input type="checkbox"/>	(10) METALS						
				<input type="checkbox"/>	(11) OTHER(specify):						

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SO-LID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
PCB		X		X				11097-69-1	25 gallons	
trichloroethylene		X			X			79-01-6	unknown	
1,1,1-trichlorethane		X			X			71-55-6	unknown	
ammoniated material		X				X		unknown	unknown	
chlorinated material		X				X		unknown	unknown	
solidified ink	X						X	unknown	unknown	
roofing material	X						X	unknown	unknown	

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

A. HUMAN HEALTH HAZARDS

TCE and 1,1,1-TCE found in home well samples near the site.

VIII. HAZARD DESCRIPTION (continued)

B. NON-WORKER INJURY/EXPOSURE

known.

C. WORKER INJURY/EXPOSURE

None known.

D. CONTAMINATION OF WATER SUPPLY

Documented to exist in some nearby private water supply wells (Betz-Converse-Murdoch, Inc., Hydrogeologic Report, April, 1983).

E. CONTAMINATION OF FOOD CHAIN

None known or reported.

F. CONTAMINATION OF GROUND WATER

Documented to exist both on and off site.
(Betz-Converse-Murdoch, Inc., Hydrogeologic Report, April, 1983).

G. CONTAMINATION OF SURFACE WATER

None known.

VIII. HAZARD DESCRIPTION (continued)

H. DAMAGE TO FLORA/FAUNA

None known or expected.

I. FISH KILL

None known or expected.

J. CONTAMINATION OF AIR

None known or expected.

K. NOTICEABLE ODORS

None observed.

L. CONTAMINATION OF SOIL

Core soil samples taken by Betz-Converse-Murdoch, Inc. indicate some contamination is present on site (April, 1983).

M. PROPERTY DAMAGE

None known or expected.

VIII. HAZARD DESCRIPTION (continued)

 N. FIRE OR EXPLOSION

None known.

 O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

Improper handling and disposal of solvents during the active life of the facility has resulted in groundwater and soil contamination to a limited degree (PA DER report, June 29, 1983).

 P. SEWER, STORM DRAIN PROBLEMS

Possible sources of contamination on site may include underground tanks, floor drains, and the septic system (PA DER report, June 20, 1983).

 Q. CORROSION PROBLEMS

None observed.

 R. INADEQUATE SECURITY

All drums are stored in locked warehouse.

 S. INCOMPATIBLE WASTES

Spent caustic material is stored in drums along side of spent acids. By not segregating these wastes types, the potential exists for an accident causing a violent reaction.

VIII. HAZARD DESCRIPTION (continued)

T. MIDNIGHT DUMPING

None known or expected.

U. OTHER (specify):

N/A

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	380	380/ 1/2 mile	100	1/2 mile
2. IN COMMERCIAL OR INDUSTRIAL AREAS	250	250/1/4 mile	12	1/4 mi.
3. IN PUBLICLY TRAVELLED AREAS	Route 30	well travelled hwy.	--	50 ft
4. PUBLIC USE AREAS (parks, schools, etc.)	500	500/1/2 mile	8	1/2 mile

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit) 12 to 14 feet	B. DIRECTION OF FLOW northeast	C. GROUNDWATER USE IN VICINITY private wells
D. POTENTIAL YIELD OF AQUIFER unknown	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure) 100 feet	F. DIRECTION TO DRINKING WATER SUPPLY northeast
G. TYPE OF DRINKING WATER SUPPLY		
<input checked="" type="checkbox"/> 1. NON-COMMUNITY < 15 CONNECTIONS* <input type="checkbox"/> 2. COMMUNITY (specify town): _____ <input type="checkbox"/> 3. SURFACE WATER <input checked="" type="checkbox"/> 4. WELL		

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X. WATER AND HYDROLOGICAL DATA (continued)

LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL IDENTIFICATION	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COMMUNITY (mark 'X')	5. COMMUNITY (mark 'X')
J. D'ambusio Church Farm Schl. St. Phillips & James	unknown	117 E. Lancaster Pike, Paoli, PA 19301	X	
	unknown	Rt. 30 Exton, PA	X	
		Rt. 30 and Ship Road	X	
Information for approximately 17 other wells is not available				

RECEIVING WATER

1. NAME: Valley Creek

2. SEWERS 3. STREAMS/RIVERS
 4. LAKES/RESERVOIRS 5. OTHER (specify): _____

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Intermittent stream - no known use.

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

A. KNOWN FAULT ZONE B. KARST ZONE C. 100 YEAR FLOOD PLAIN D. WETLAND
 E. REGULATED FLOODWAY F. CRITICAL HABITAT G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

A. OVERBURDEN	B. BEDROCK (specify below)	C. OTHER (specify below)
1. SAND	X Impure limestone and dolomites	X silt loams
2. CLAY		
3. GRAVEL		

XIII. SOIL PERMEABILITY

A. UNKNOWN B. VERY HIGH (100,000 to 1000 cm/sec.) C. HIGH (1000 to 10 cm/sec.)
 D. MODERATE (10 to .1 cm/sec.) E. LOW (.1 to .001 cm/sec.) F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

1. YES 2. NO 3. COMMENTS:

H. DISCHARGE AREA

1. YES 2. NO 3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE: 3 to 8 percent

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: north

J. OTHER GEOLOGICAL DATA

N/A

AR100027

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UNKNOWN
(RAD) There are no available records of		any permits issued	to the A.I.W.	Frank Corp.			

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

 NONE YES (summarize in this space)

July 5, 1983 - Violation of the Clean Streams Law, the Act of June 22, 1937, P.L. 1987., regarding potential pollution (PA DER Report, August 2, 1983).

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

AR100028

ORIGINAL

APPENDIX A

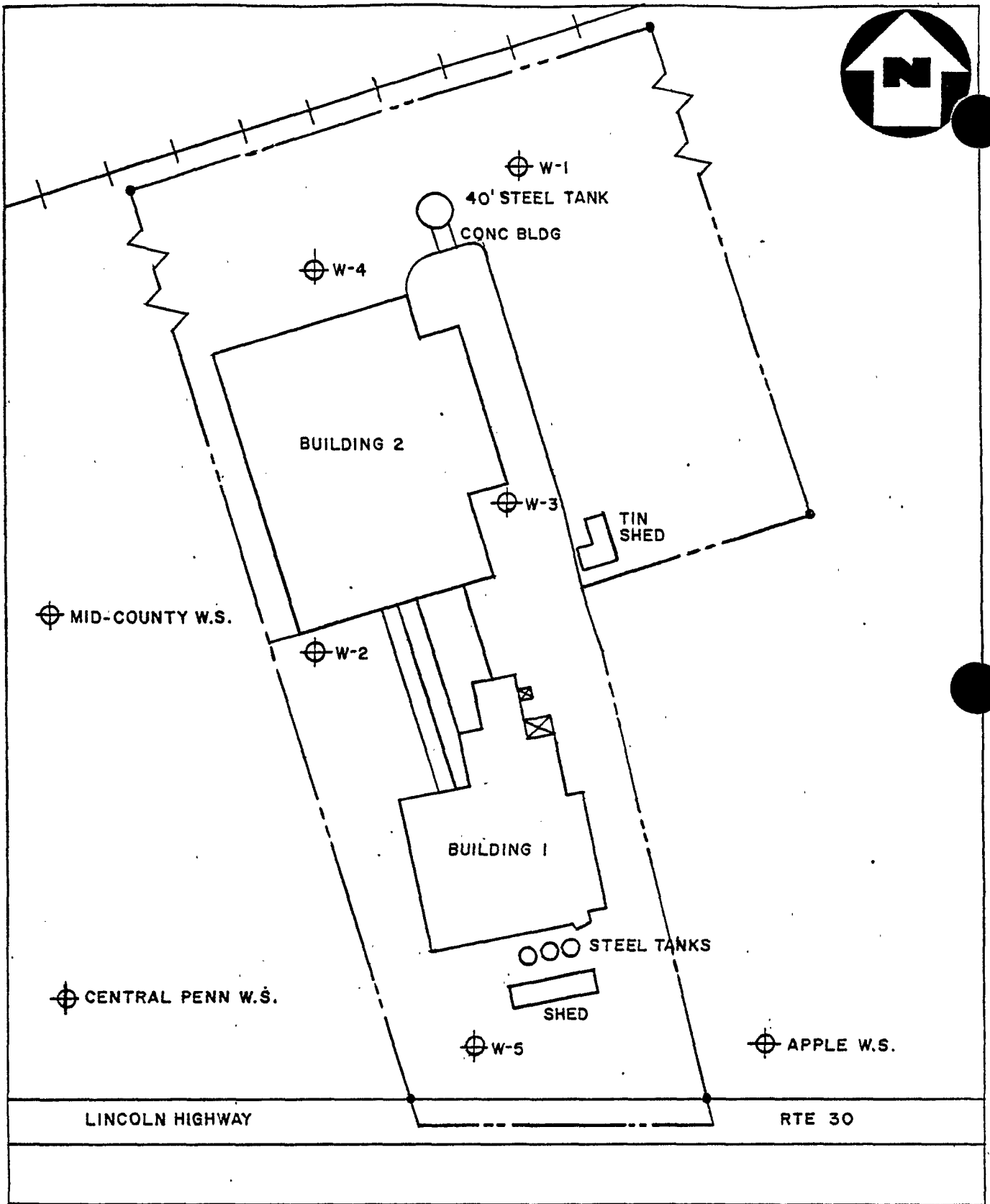
AR100029

1. COST CENTER:		REM/FIT ZONE CONTRACT TECHNICAL DIRECTIVE DOCUMENT (TDD)			2. NO.:	
ACCOUNT NO.:					F3-8402-06	
3. PRIORITY:		4. ESTIMATE OF TECHNICAL HOURS:	5. EPA SITE ID:	6. COMPLETION DATE:	7. REFERENCE INFO.:	
<input type="checkbox"/> HIGH <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> LOW		180			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ATTACHED <input type="checkbox"/> PICK UP	
		4A. ESTIMATE OF SUBCONTRACT COST:	5A. EPA SITE NAME:	3/24/84		
			A I W Frank			
8. GENERAL TASK DESCRIPTION: <u>Perform desk top SI for subject site.</u>						
9. SPECIFIC ELEMENTS:						
1.) <u>Conduct a site visit and prepare a desk top SI.</u> 2.) <u>Contact DER to update status of clean-up activity.</u> 3.) <u>Prepare HRS based on DER data attached to 11/22/83 PA and any more recent available information.</u> 4.) <u>Look into PCB clean-up activity mentioned in Company proposals attached to PA.</u>						
10. INTERIM DEADLINES:						
11. DESIRED REPORT FORM: FORMAL REPORT <input checked="" type="checkbox"/> LETTER REPORT <input type="checkbox"/> FORMAL BRIEFING <input type="checkbox"/>						
OTHER (SPECIFY): _____						
12. COMMENTS: _____						
13. AUTHORIZING RPO: <u>Harold G. Byer</u> (SIGNATURE)						
14. DATE: <u>3/16/84</u>						
15. RECEIVED BY: <u>[Signature]</u> <input checked="" type="checkbox"/> ACCEPTED <input type="checkbox"/> ACCEPTED WITH EXCEPTIONS <input type="checkbox"/> REJECTED (CONTRACTOR RPM SIGNATURE)						
16. DATE: <u>3/19/84</u>						

ORIGINAL
(Red)

APPENDIX B

AR100031

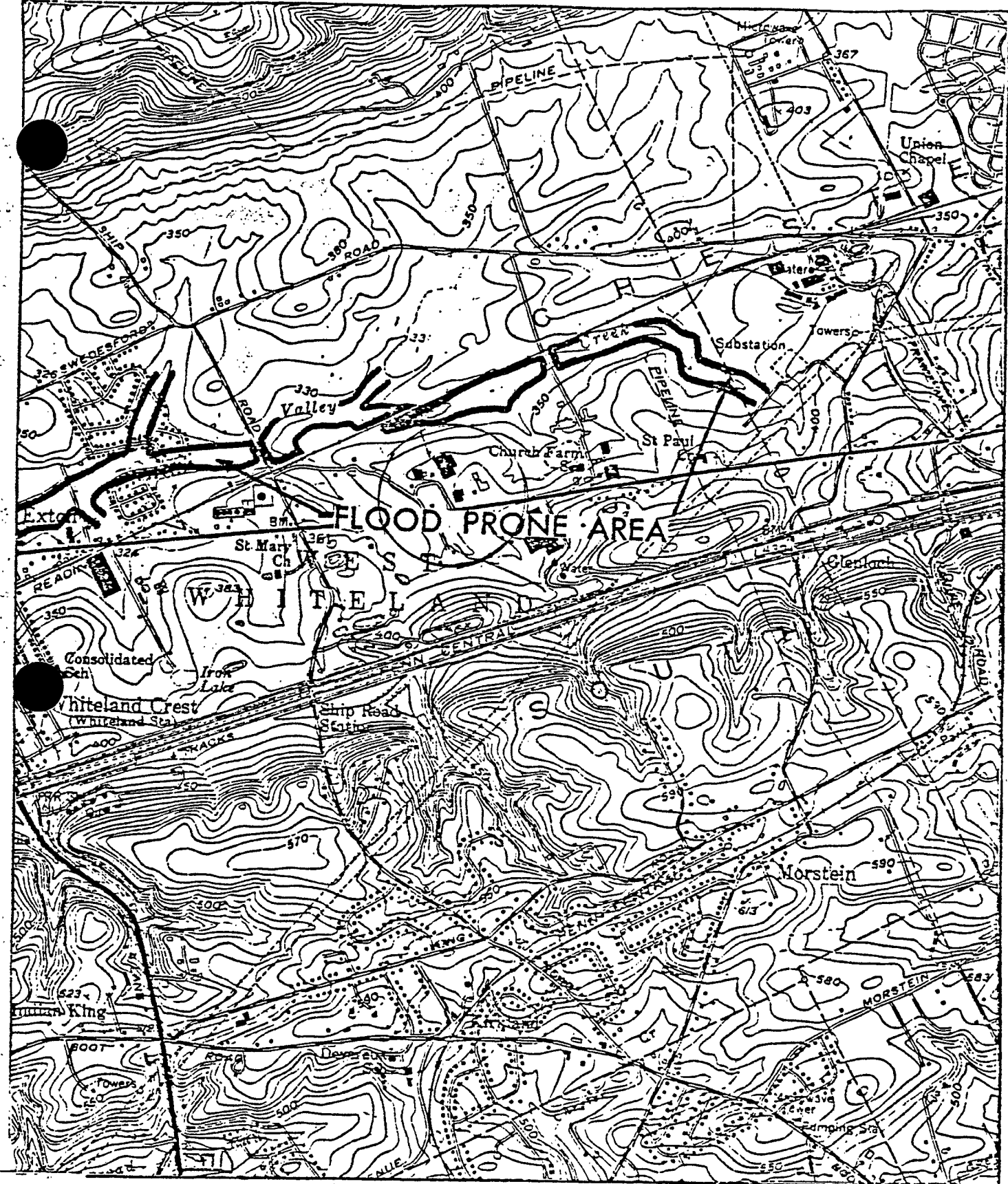


SITE SKETCH
A.I.W. FRANK CORP., WEST WHITLAND TWP., PA.
 (NO SCALE)

FIGURE 2



AR100032



SITE LOCATION
 A.T.W. Frank Corp.
 Exton, Pennsylvania
 Source: U.S.G.S. Flood-Prone Map
 Scale: 1:24000

FIGURE 1

 A Halliburton Company

AR100033

ORIGINAL
(used)

APPENDIX C - 1.1

AR100034



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES
 1875 New Hope Street
 Norristown, PA 19401
 215 631-2420



June 20, 1983

Mr. Bob Herman
 c/o Kittredge, Kaufman, Donley
 Attorneys at Law
 121 South Broad Street
 Philadelphia, PA 19107

Re: AIWS Property
 Hydrogeologic Investigation
 West Whiteland Township
 Chester County

Dear Mr. Herman:

This office has reviewed the above referenced hydrogeologic report and offers the following comments:

1. The solvent loading and storage area is but one of the possible sources of contamination on site. Others include underground tanks, floor drains and the septic system. Each should be investigated.
2. The entire plant property is suspect at this point, not only the drum storage areas. The investigation should cover all facilities within property boundaries and any available information concerning plant operations and design should be provided.
3. The well situated at the auto repair shop provides water for surrounding facilities including the Central Penn Bank. Originally, it was suspected that the bank had its own water supply system. The sample from the bank was unknowingly taken after passage through a carbon filter. Results indicate the break through of hydrocarbons (TCE-317 ppb) and, therefore, the filter should be replaced. This condition should be made known to the bank manager.
4. The source of contamination in Well No. 3 is most likely within the site boundaries. The presence of significant concentrations of 1,1,1-trichloroethane can not be explained by the various theories presented in this report.
5. The AIWS plant may not be the primary source of contamination, but is one of a number of potential sources in the region. Other likely sources include the parcel of land immediately to the west of the facility and the Mid-County Mustang Shop as evidenced by sample results.

AR100035

6. Improper handling and disposal of solvents during the active life of the facility has resulted in groundwater and soils contamination to a limited degree and, therefore, the present and future owners of this site will probably be liable for any past activities which resulted in pollution.
7. The report suggests that the ultimate source of contamination is off site as evidenced by elevation concentrations of trichloroethene in the Mid-County well, and that a localized reversal in the groundwater flow gradient occurred drawing a plume of contamination within the site as a result of the pumping of well No. 5. Well No. 5 was used for drinking and process water during the active life of the plant, and yielded between 50 to 100 gallon per minute. If this was, indeed, the case, the resulting well interference would have caused a substantial reduction in yield in adjacent private and industrial supplies. Pumping at this rate for prolonged periods of time would have produced a cone of depression with a radius on the order of a few hundred feet. There is no evidence which suggests that this had occurred.
8. Existing on site contamination of both soils and groundwater should be controlled or mitigated. A viable remedial plan which includes a schedule for clean up activities should be provided.
9. Continued monitoring of monitoring wells 1 through 5 is necessary. The wells could be sampled on a semi-annual basis for the immediate future unless incoming results indicate a change in sampling frequency is necessary. In succeeding years, sampling could alternate between spring-fall and summer-winter months. Analyses of samples can be limited to the TCE series. Off site wells, such as Apple Industries and Mid-County should also be sampled on a periodic basis.
10. Specifically, the clean up plan should address the following:
 - a. Removal of contaminated soils,
 - b. sampling of drums for chlorinated hydrocarbons and PCB's,
 - c. removal of the drums,
 - d. investigation and possible removal of underground tanks.
11. Information in the form of blueprints, schematic diagrams of the existing piping system, floor drains, tanks, sumps, etc. should be provided in order to expedite review and investigation of possible sources of contamination.
12. Due to possible adverse health effects, a schedule should be developed for the periodic replacement of carbon filters at the Mid-County well. Filters should be replaced before breakthrough of contaminants occurs.

Mr. Bob Herman

June 20, 1983

- 3 -

13. The hydrogeologic study should discuss the following:
 - a. Rates of infiltration and recharge,
 - b. rate of groundwater flow,
 - c. degree of attenuation, dilution and dispersion of contaminants in the soil and groundwater,
 - d. a fracture trace study in the form of photographic evaluation,
 - e. structural geology and the possible influence on groundwater movement,
 - f. the presence of perched and/or shallow groundwater tables,
 - g. dynamics of groundwater flow to carbonate bedrock and overburden deposits.
14. It seems unlikely that a remnant of the reversal in the groundwater table gradient would remain 1 1/2 to 2 years after pumping of well No. 5 ceased, especially since bedrock consists of moderately permeable impure limestone/dolomite.
15. The concentration of 1,1,1-TCE is higher than than of TCE in well No. 2. In the Mid-County well, the reverse is true. This was not explained.

The facility may not be the only contributor to soil/groundwater contamination, but certainly must accept limited responsibility for the problem. The presence of elevated concentrations of 1,1,1-TCE and TCE is explained by a number of processes in the report:

- a. Groundwater table gradient reversal via a pumping well,
- b. local reversal due to periods of low recharge and a depressed water table,
- c. mounding of the water table around the edge of the paved plant area.

At this point, all of the above processes are unsubstantiated. This Department is not ruling them out completely, but at this point, the consultants are speculating as to the ultimate contaminant/transport medium.

AR100037

Mr. Bob Herman

June 20, 1983

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This Department welcomes any comments on this review. If you have any questions regarding this review, please feel free to contact this office.

Very truly yours,

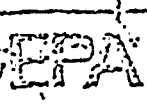
VICTOR JANOSIK
Solid Waste Operations Supervisor

cc: Frank Holmes ✓
Continental Refrigeration
Betz Converse Murdoch
Bureau of Water Quality Management
Victor Janosik
Central Penn Bank
West Whiteland Township
Chester County Health Department
Re HW22

AR100038

APPENDIX C - 1.2

AR100039



POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION SITE NUMBER (to be assigned by IIC)
PA.DCO 4351002

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

1. NAME: Gen I.M. Frisch Corp.
 2. STREET (or other identifier): Rt 30 (717 E. Lincoln Hwy)
 3. CITY: Exton
 4. D. STATE: Pa
 5. E. ZIP CODE: 19143
 6. F. COUNTY NAME: Chester

7. OWNER/OPERATOR (if known) NAME: Continental Refrigerator Corp
 8. TELEPHONE NUMBER: 215-544-7110
 9. TYPE OF OWNERSHIP: 1. FEDERAL 2. STATE 3. COUNTY 4. MUNICIPAL 5. PRIVATE 6. UNKNOWN

10. SITE DESCRIPTION - AIWF Corp was located at this site up until Fall of 1981 when the company went bankrupt. They were in the process of mfg. styro-foam cups. The site was a mess.

11. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.): During another investigation in the area
 12. DATE IDENTIFIED (mo., day, & yr.): March, 1982

13. PRINCIPAL STATE CONTACT NAME: Frank Holmes
 14. TELEPHONE NUMBER: 215-631-2420

II. PRELIMINARY ASSESSMENT (complete this section last)

15. APPARENT SERIOUSNESS OF PROBLEM: 1. HIGH 2. MEDIUM 3. LOW 4. NONE 5. UNKNOWN

16. RECOMMENDATION:
 1. NO ACTION NEEDED (no hazard)
 2. IMMEDIATE SITE INSPECTION NEEDED
 a. TENTATIVELY SCHEDULED FOR: _____
 b. WILL BE PERFORMED BY: _____
 3. SITE INSPECTION NEEDED
 a. TENTATIVELY SCHEDULED FOR: _____
 b. WILL BE PERFORMED BY: _____
 4. SITE INSPECTION NEEDED (low priority)

2 DEP - Soil/Water and Water Quality are presently monitored

17. PREPARER INFORMATION NAME: Frank Holmes
 18. TELEPHONE NUMBER: 215-631-2420
 19. DATE (mo., day, & yr.): 11/22/82

III. SITE INFORMATION

20. SITE STATUS:
 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal or continuing study, even if inactive.)
 2. INACTIVE (Those sites which no longer receive wastes.)
 3. OTHER (specify): Debris on site
 (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)
occupies the site

21. IS GENERATOR ON SITE?
 1. NO 2. YES (specify generator's four-digit SIC Code): _____

22. AREA OF SITE (in acres): 3 acres
 23. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES:
 1. LATITUDE (deg.-min.-sec.): _____
 2. LONGITUDE (deg.-min.-sec.): _____

24. ARE THERE BUILDINGS ON THE SITE?
 1. NO 2. YES (no. of buildings): 2 large warehouses, 1 small building

ART00010

IV. CHARACTERIZATION OF SITE ACTIVITY

the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

A. TRANSPORTER	X	B. STORER	X	C. TREATER	X	D. DISPOSER
AIR		1. PILE		1. FILTRATION		1. LANDFILL
SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS. TREATMENT		5. MIDNIGHT DUMPING
OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
				7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
				8. SOLVENT RECOVERY		8. OTHER (specify):
				9. OTHER (specify):		

SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED
The Allen I. W. Frank Corp. has not been active at this site for about 10 years. When they operated they used TCE + 111 TCE to clean machinery. They had new material in drums and waste in drums and one 50 gal. above ground tank.

V. WASTE RELATED INFORMATION

WASTE TYPE
 1. UNKNOWN 2. LIQUID 3. SOLID 4. SLUDGE 5. GAS

WASTE CHARACTERISTICS
 1. UNKNOWN 2. CORROSIVE 3. IGNITABLE 4. RADIOACTIVE 5. HIGHLY VOLATILE
 6. TOXIC 7. REACTIVE 8. INERT 9. FLAMMABLE

10. OTHER (specify): *Solvents*

WASTE CATEGORIES
 Are there any other types of wastes available? Specify items such as manifests, inventories, etc. below.

Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

1. SLUDGE	X b. OIL	X c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
(1) PAINT, PIGMENTS	X (1) OILY WASTES	X (1) HALOGENATED SOLVENTS	X (1) ACIDS	X (1) FLYASH	X (1) LABORATORY PHARMACEUT.
(1) METALS SLUDGES	(2) OTHER (specify):	(2) NON-HALOGENATED SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(1) POTW		(3) OTHER (specify):	(3) CAUSTICS	(3) MILLING/ MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SULTC. WASTES	(4) MUNICIPAL
(1) OTHER (specify):			(5) DYES/INKS	(5) NON-FERROUS SULTC. WASTES	(5) OTHER (specify):
			(6) CYANIDE	(6) OTHER (specify):	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			(11) OTHER (specify):		

AR100041

V. WASTE RELATED INFORMATION (continued)

LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard).

1. Waste solvents in drums + tank - due to be removed in next few mo.
2. Waste solvents + oils in soil - due to be removed in next few mo.

ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.
 In April 1983 Betty Conner + Murdoch performed a groundwater study (attached). At this time it was determined that the property was not the only source of groundwater contamination in the area. On Aug 21, 1983 Water Quality requested that the generator + owner of the waste perform a groundwater study (attached).

VI. HAZARD DESCRIPTION

A. TYPE OF HAZARD	B. POTENTIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo., day, yr.)	E. REMARKS
NO HAZARD				
HUMAN HEALTH				
NON-WORKER INJURY/EXPOSURE				
WORKER INJURY				
CONTAMINATION OF WATER SUPPLY				
CONTAMINATION OF FOOD CHAIN				
CONTAMINATION OF GROUND WATER	X			The contamination seems to be a few years of sloppy handling of solvents - solvents in the soil
CONTAMINATION OF SURFACE WATER				
DAMAGE TO FLORA/FAUNA				
FISH KILL				
CONTAMINATION OF AIR				
NOTICEABLE ODORS				
CONTAMINATION OF SOIL	X			Sloppy handling of solvents
PROPERTY DAMAGE				
FIRE OR EXPLOSION				
SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS				
SEWER, STORM DRAIN PROBLEMS				
EROSION PROBLEMS				
INADEQUATE SECURITY				
INCOMPATIBLE WASTES				
NIGHT DUMPING				
OTHER (specify)				

AR100042

VII. PERMIT INFORMATION

INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.

- 1. NPDES PERMIT
- 2. SPCC PLAN
- 3. STATE PERMIT (specify):
- 4. AIR PERMITS
- 5. LOCAL PERMIT
- 6. RCRA TRANSPORTER
- 7. RCRA STORER
- 8. RCRA TREATER
- 9. RCRA DISPOSER

OTHER (specify): *N/A*

COMPLIANCE:

- 1. YES
- 2. NO
- 3. UNKNOWN

4. WITH RESPECT TO (list regulation name & number):

VIII. PAST REGULATORY ACTIONS

- A. NONE
- B. YES (summarize below)

IX. INSPECTION ACTIVITY (past or on-going)

- A. NONE
- B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION

X. REMEDIAL ACTIVITY (past or on-going)

- A. NONE
- B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION
Water solvent division ground waste tanks	Winter 82-83	First Rate Pump	Kids hole in to property and finished w/ a number of oil waste drums
ground water study	April 83	First Rate Pump	Performed by Bely. Concrete Hardware
Groundwater (including Soil)	1983-84	Continental Dyke Corp	See attached proposal

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.

AR100043

FIELD TRIP SUMMARY REPORT

This summary should be prepared in conjunction with the Preliminary Assessment Form, (EPA Form T2070-2), so that a proper site rating can be assigned.

Name of Site Allen T.W. Frank Corporation

EPA Case Number PAD004351003

I. If site is active, has owner/operator notified EPA in accordance with Section 3010 of RCRA. Yes _____ No _____

N/A If yes: a) Note EPA I.D. No. _____

b) Is the site a generator, storer, treater or disposer of hazardous waste? (CIRCLE ONE).

II. If the answers submitted in Part VI (Hazard Description) of EPA Form T2070-2 or observations warrant a more thorough site investigation/sampling, please attach a sketch map showing those areas of concern. (i.e.: lagoons, leachate seeps, drum storage, monitoring wells, etc.).

III. Please list site contacts and accompanying inspectors; include name, title and phone numbers. Herman L. Merin - Project Manager

employed by Continental Refrigeration Corp present
owners of property. -

IV. Site observations: (attach a topo map).

A. Population within 1000 ft. of the site is (CHECK ONE)

- 1. 0-10 people
- 2. 10-100 people
- 3. greater than 100 people

B. List surrounding land use: (woodlot, agricultural, playground, industrial, etc.)

North: Agricultural

South: Industrial

East: Commercial

West: Commercial/residential

C. Water supply for area. (CHECK ONE)

- 1. Surface intakes (locate on attached map)
- 2. Municipal wells (locate on attached map)
- 3. Domestic wells:

- a. Approximate number within 1/2 mile. 20
- b. Locate a minimum of 3 wells on attached map and list below:

Property owner ~~Joseph D. Ambrose~~ Church Farm School Sta. Pileggi + Janni
117 E. Lancaster Rt 30
 Address Pike, Paoli, Pa-19341 Exton, Pa Exton, Pa.
 Phone No. _____

Well records	YES <u>X</u>	NO _____	YES _____	NO <u>X</u>	YES _____	NO <u>X</u>
Odor problems	YES _____	NO <u>X</u>	YES _____	NO <u>X</u>	YES _____	NO <u>X</u>
Taste problems	YES _____	NO <u>X</u>	YES _____	NO <u>X</u>	YES _____	NO <u>X</u>

c. If odor or taste problems are reported please elaborate: _____

D. Are surface or subsurface, (leachate), drainage areas from site apparent?
YES _____ NO X. If yes:

- 1. Were unusual odors or stains noted? YES X NO _____
- 2. Was stressed vegetation noted? YES _____ NO X

a. If yes please note area on map.

E. Are streams or receiving waters adjacent to site? YES X NO _____
If yes, list observations: (i.e.-change in benthic community, change in plant density/diversity, change in color, siltation, etc.). Too far away

to be affected

F. Site topography: (i.e.-plateaus, strip mine remains, etc.). flat

G. Other observations: (i.e.-erosion, located in flood plain, etc.). _____

V. Were photographs taken? YES _____ NO X
If yes: Who has custody of photos? _____

Name: _____

Agency: _____

Phone No.: _____

Betsy - Conner - Murdoch report

VI. Is a hydrogeological survey for this site attached? YES X NO _____
If no, Section III D of EPA Form 12070-2 must be completed.

VII. Please attach pertinent copies of reports or data reviewed by inspector:
(i.e.-State monitoring data, consultant reports, etc.).

VIII. Name of Inspector: Frank Holmes

Agency: Pa DER - Norristown

Phone No.: 215-631-2420

Time on Site: 0800 11/22/83

Weather Conditions: Clear

ORIGINAL
(Red)

APPENDIX C - 1.3

AR100047

Department of Environmental Resources

1375 New Hope Street
Norristown, Pennsylvania 19401
215 631-2409

August 2, 1983

Messrs. Joseph D'Arbrosio
and

Cordi Scartozzi
117 East Lancaster Pike
Paoli, PA 19301

Re: Industrial Waste
P/S & Mid County Mustang Property
West Whiteland Township
Chester County

Gentlemen:

This is to confirm the results of my inspection conducted on July 5, 1983 which revealed that floor drains, which have the potential of receiving industrial waste, discharge to groundwater.

Such condition is in violation of Title 25, Chapter 101 Section 101.3(a) of the Rules and Regulations of the Department of Environmental Resources regarding potential pollution. Consequently, you are in violation of the Clean Streams Law, the Act of June 22, 1937, P.L. 1937, as amended and subject to the penalties provided therein.

The well on the property has been found to be contaminated with volatile organic compounds, including TCE.

We are requesting that you take the following actions to correct and mitigate the effects of this groundwater pollution problem:

1. No later than September 23, 1983, to retain a qualified hydrogeologist and submit to the Department for approval, a work plan describing the scope and methods of a hydrogeologic study to determine the extent and impact of soil and groundwater contamination at and in the vicinity of the subject property. The work plan should include target dates for completion of the various tasks comprising the study, including a final report and recommendations. The scope of the study should include as a minimum:

Definition of the present extent of soil and groundwater pollution.

Evaluation of the potential for further spread of soil and groundwater pollution.

Definition of all sources of the pollution and a description of the means and methods proposed or used for the elimination of said sources.

AR100048

Messrs. Joseph D'Amrosio
and
Cordi Scartozzi
August 2, 1983

- 2 -

Evaluation of alternatives available to abate the soil and groundwater pollution.

A groundwater quality monitoring program which will allow for evaluation of long-term groundwater quality conditions and which will ensure the protection of public health.

Conclusions and proposed actions to abate the soil and groundwater pollution and a schedule for accomplishing such actions.

If you have any questions, please feel free to contact me.

Very truly yours,

Marilyn Ship

MARILYN SHIP
Water Quality Specialist

cc: Frank Holmes, SMH
Chester County Health Department
Re 30 A533

AR100049

APPENDIX C - 1.4

AR100050

UNRECORDED
MORRISTOWN

MORRISTOWN

SEP 12 1983

SEP 1 8

CHEMICAL WASTE REMOVAL SERVICE
FUEL EXTENDERS
STEEL DRUMS

Delaware Container Co., Inc.

W. 11TH AVENUE & VALLEY ROAD
COATESVILLE, PA 19320

PHONE: (215) 383-6600

August 9, 1983

Continental Refrigerator Corp.
P.O. Box 377
Media, PA 19063

AUG 10 1983

Attention: Herman L. Miron, Project Manager

Dear Mr. Miron:

Per your request, Delaware Container Co., Inc. is offering the following proposal for the AIWF clean-up project.

A. Contaminated Soil Removal/Transport/Disposal

1. Labor and equipment to remove 80 cubic yards of TCE contaminated soil and 20 cubic yards of diesel fuel contaminated soil: \$1250.00
2. Transport and disposal of TCE and diesel fuel contaminated soil: \$125.00 per cubic yard. Disposal will be at a secure chemical landfill in Oregon, Ohio.

B. Drum Removal/Transport/Disposal

1. Supply six overpack salvage drums to contain leaking drums: \$20.00 each=\$120.00
2. Labor, 2 men @ \$20.00 per hour x 8 hours each: \$320.00
3. Disposal/Transport
 - a. 12 drums of combustible materials @ \$70.00 per drum = \$840.00
 - b. 25 drums of non-regulated material @ \$70.00 per drum = \$1750.00
 - c. 3 drums of chlorinated material @ \$70.00 per drum = \$210.00
 - d. 1 drum of ammoniated material @ \$70.00 per drum
 - e. 2 drums of solidified ink @ \$70.00 per drum = \$140.00
 - f. 1 drum of roofing material @ \$70.00 per drum

AR100051

- g. Compliance fee for entire load, \$50.00
- h. Labeling and manifesting, \$100.00 entire load

Total cost for drum transport and disposal, \$3670.00, to include all labor, materials, transport, disposal labeling, and manifesting.

C. TCE Tank, Removal/Disposal of Contents

- 1. 150 gallons removal/transport, \$150.00
- 2. 150 gallons disposal @ \$1.27 per gallon, \$190.50
- 3. Compliance fee, \$25.00

Costs for the entire project, based on given quantities, are as follows:

1. TCE and diesel contaminated soil:	\$13,750.00
2. Drum removal/transport/disposal:	\$ 3,670.00
3. TCE removal/disposal from tank:	\$ 365.50
	<hr/>
	\$17,785.50 TOTAL

As we discussed previously, the responsible party or agent representing the generator must apply for a temporary EPA I.D. number. This can be done by calling the EPA office at 6th and Arch in Phila. The number is 215-597-8751. Ash for Joan Henry. There is no charge for this but minimal paperwork will follow. The number issued must be valid for two weeks, to allow the contractor ample time for clean-up.

Also, if Delaware Container Co., Inc. is awarded this project, we must be given written notice as to the party or parties responsible for payment. Monies placed in escrow would be acceptable until the project is completed. Terms are net 30 days from date of invoice. Amounts due over 30 days are subject to a 1½% per month interest charge.

Thank you for the opportunity to bid on this project. If you have any questions or require additional information, please feel free to call me at anytime.

Kindest Regards.

Sincerely,

DELAWARE CONTAINER CO., INC.

Ken Sirmarco

Ken Sirmarco

KS/dlm

AR100052

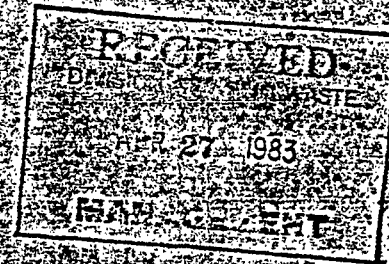
Signature

ORIGINAL

APPENDIX C - 1.5

AR100053

REPORT



HYDROGEOLOGIC INVESTIGATION OF THE AIWF PROPERTY

APRIL 1983

BCM

Betz·Converse·Murdoch·Inc.
Engineers, Planners and Scientists

AR100054

TABLE 1
SITE MONITORING WELL WATER QUALITY DATA

Well No.	Date Sampled	BCM Lab No.	Trichloroethylene	Perchloroethylene	1,1,1-Trichloroethane
1	01/27/83	N300696	<0.1	<0.1	<0.1
1	03/15/83	N302167	<0.1	<0.1	0.9
2	01/27/83	N300784	104	13	414
2	03/15/83	N302168	299	16.5	486
3	01/27/83	N300697	<0.1	<0.1	116
3	01/31/83	N300785	5.3	<0.1	94.4
3	03/15/83	N302169	17.6	1.5	104
4	01/27/83	N300698	<0.1	<0.1	<0.1
4	03/15/83	N302170	<0.1	<0.1	4.9
5	01/27/83	N301071	1.5	<0.1	<0.1
5	03/15/83	N302171	0.5	<0.1	1.9

All values reported in micrograms per liter (µg/l)

TABLE 2

SITE MONITORING WELL WATER QUALITY DATA

Parameter*	ID: BCM No.: Date Sampled:	Well 2 N300784 01/31/83	Well 3 N300785 01/31/83
Chloromethane		<0.1	<0.1
Bromomethane		<0.1	<0.1
Vinyl Chloride		<0.1	<0.1
Chloroethane		<0.1	<0.1
Methylene Chloride		4.3	3.0
Trichlorofluoromethane		<0.1	<0.1
#2 1,1-Dichloroethene		69.5	<0.1
#3 1,1-Dichloroethane		<0.1	137
Trans-1,2-Dichloroethene		<0.1	14.8
Chloroform		<0.1	<0.1
1,2-Dichloroethane		<0.1	<0.1
Carbon Tetrachloride		<0.1	<0.1
Bromodichloromethane		<0.1	<0.1
1,1,2-Trichloroethane		<0.1	<0.1
Cis-1,3-Dichloropropene		<0.1	<0.1
Bromoform		<0.1	<0.1
Chlorobenzene		<0.1	4.3
1,2-Dichloropropane		<0.1	<0.1
Benzene		5.5	3.3
Toluene		<0.1	<0.1
Ethyl Benzene		<0.1	<0.1
1,3-Dichlorobenzene		<0.1	19.3
1,4-Dichlorobenzene		<0.1	<0.1
1,2-Dichlorobenzene		<0.1	<0.1
PCB as A-1260		<0.01	<0.01

*All values reported in microgram per liter (µg/l)

TABLE 3
OFFSITE WELL WATER QUALITY DATA

Location	Date Sample	BCM Lab No.	Trichloroethylene	Perchloroethylene	1,1,1-Trichloroethane
Apple Press	01/13/83	N300388	<0.1	<0.1	NA
Apple Press	03/15/83	N302173	0.5	<0.1	0.5
Mid-County	01/13/83	N300390	700	9.8	NA
Mid-County	03/21/83	N302382	712	18.2	335
Lasko	01/13/83	N300387	<0.1	<0.1	NA
Livingston	01/13/83	N300389	79	1.1	NA
Central Penn	03/15/83	N302173	317	0.5	195

All values reported in micrograms per liter (µg/l)

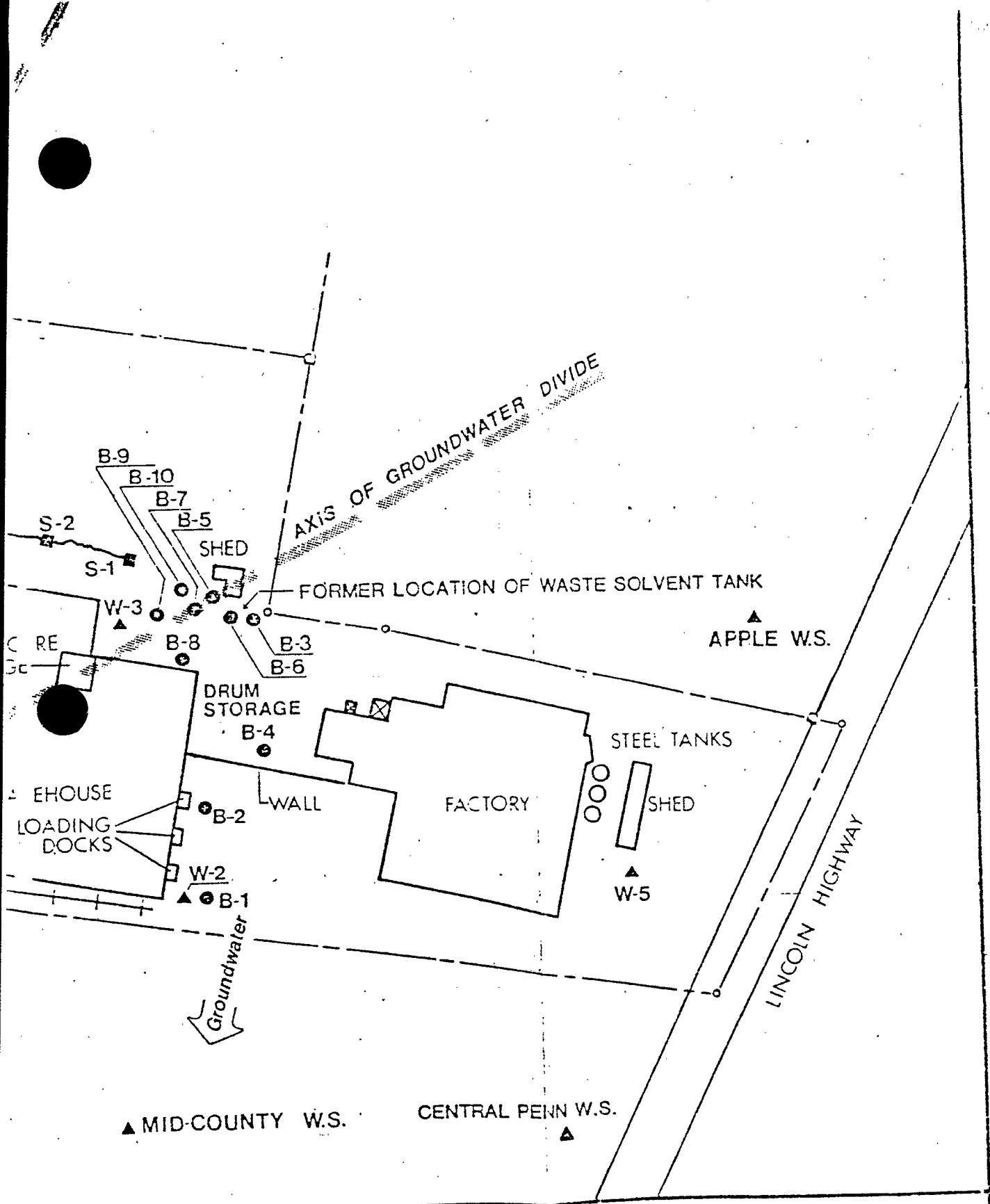


FIGURE 2
 FACILITIES SITE
 Sampling Locations

TABLE 4
SOIL SAMPLING DATA
(Values in mg/kg - Milligrams per Kilograms)

Parameter	ID: Depth(ft): BCM No.: Date Sampled:	S-1 0.5-1.0 N300833 02/01/83	S-2 0.5 N300847 02/01/83	B-1 3-4 N300837 02/01/83	B-1 6-7 N300838 02/01/83	B-1 9-10 N300839 02/01/83	B-2 3-4 N300841 01/31/83
Trichloroethylene		0.13	0.08	<0.01	<0.01	<0.01	<0.01
Perchloroethylene		0.14	<0.02	<0.02	<0.02	<0.02	<0.02
1,1,1-Trichloroethane		4.4	4.5	<0.01	<0.01	<0.01	<0.01

Parameter	ID: Depth(ft): BCM No.: Date Sampled:	B-2 6-7 N300842 01/31/83	B-2 9-10 N300846 01/31/83	B-3 3-4 N300844 01/31/83	B-3 6-7 N300843 01/31/83	B-4 3-4 N300845 01/31/83	B-5 3-4 N300852 02/01/83
Trichloroethylene		<0.01	<0.01	25.6	0.05	0.05	16.6
Perchloroethylene		<0.02	<0.02	13.1	0.06	0.03	6.9
1,1,1-Trichloroethane		<0.01	<0.01	68.7	0.31	0.21	128

Parameter	ID: Depth(ft): BCM No.: Date Sampled:	B-6 1.5-2.5 N300853 02/01/83	B-6 3-4 N300854 02/01/83	B-7 3-4 N300850 02/01/83	B-7 8-9 N300855 02/01/83	B-8 1.5-2.5 N300849 02/01/83	B-8 3.5-4.5 N300851 02/01/83
Trichloroethylene		2.1	0.12	0.08	0.07	0.08	<0.01
Perchloroethylene		0.12	0.06	0.06	<0.02	0.06	<0.02
1,1,1-Trichloroethane		9.3	4.4	9.5	<0.01	0.02	0.02

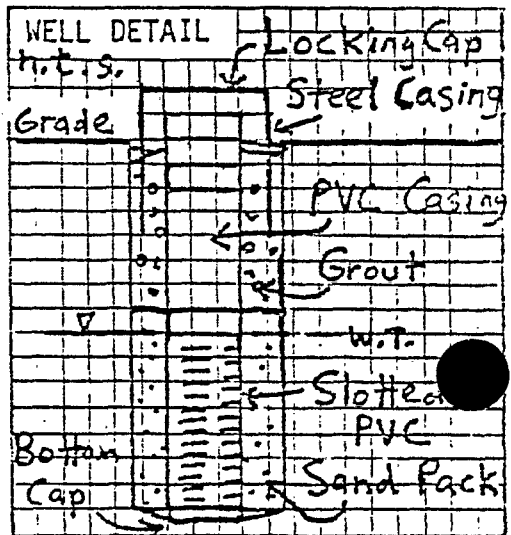
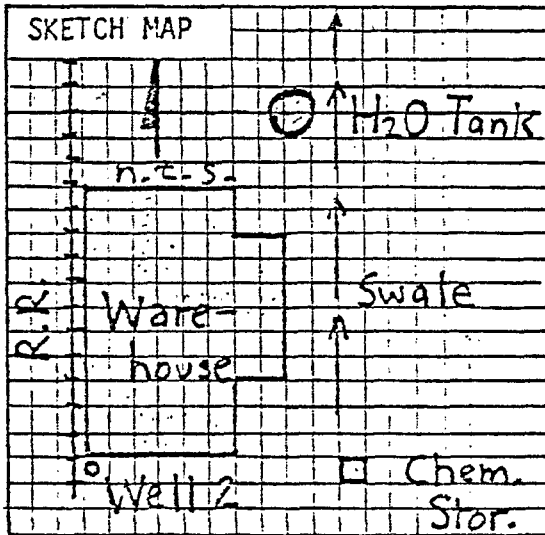
Parameter	ID: Depth(ft): BCM No.: Date Sampled:	B-8 10-11 N300848 02/01/83	B-9 1.5-2.5 N300834 02/01/83	B-9 4-5 N300835 02/01/83	B-10 0.5-1.5 N300836 02/01/83	B-10 2.5-3.5 N300846 02/01/83
Trichloroethylene		0.08	0.43	<0.01	3.3	14.3
Perchloroethylene		<0.02	0.23	<0.02	0.29	0.24
1,1,1-Trichloroethane		0.02	2.6	<0.01	4.9	23.0

Drilling Log

Well number 2

Client Kittredge, Kaufman, Donley Project No. 00-5456-01
 Well Location Loading area on west side of inactive AIWF plant, W. Whiteland, Township
 Driller/Company Jack Coover, Thomas G. Keyes, Inc. Frazer, PA
 Drilling Method Air/H₂O hammer Hole Diameter 8" Date(s) Drilled 1-17 & 18-83
 Sample Type cuttings Sample Interval N/A No. Samples Retained None
 Surface Elevation _____ Casing Top Elevation 367.44' Total Well Depth 43'
 Casing Material and Size PVC, 4" ID 1/6" prot. steel Cased Interval(s) 0 - 23'
 Grouting Type Portland cement Grouted Interval 0 - 21'
 Screening Material and Size slotted PVC, 4" ID Screened Interval(s) 23 - 43'
 Packing Material and Size Silica sand, very coarse Packed Interval 21 - 43'
 Depth to Static Water 22.71' Date 1-27-83 Approx Well Yield less than 10 gpm
 Development Method Air Development Time 0.5 hr
 Logged by: D.J. Varner

Comments Locking steel casing installed to a depth of 10 feet for security



Depth Scale	Sample	Spoon Blows	Description of Materials
0 - 0.5'			Asphalt
0.5 - 12.5			Bright rust silty Clay with some gravel near surface
12.5 - 44			Dark brown to rust clay

AR100061

APPENDIX D

AR100063

1.0 LIST OF REFERENCES

1. Pennsylvania Department of Environmental Resources files
2. Soil Conservation Service, Soil Survey of Chester and Delaware Counties, PA
3. Preliminary Geological Quadrangle Maps of Pennsylvania
4. USGS Flood-Prone Map, Malvern, PA, Quadrangle 7.5 Minute Series
5. Betz-Converse-Murdoch, Inc. water and soil sampling data

ORIGINAL
(Red)

Appendix E

AR100065

CONTROL NO:

DATE:

3/19/84

TIME:

9:00

DISTRIBUTION:

BETWEEN: Mr. Hermon Miron

OF: Continued Refrigerator
Corp.

PHONE:

() 524-0400

AND:

Jim Strickland

(NUS)

DISCUSSION:

Re-scheduled our previously scheduled site visit. The visit is
scheduled for tomorrow March 20th at 10:30.

ACTION ITEMS:

CONTROL NO:

DATE:

3-7-84

TIME:

10:15

DISTRIBUTION:

BETWEEN:

Herman Miron

OF:

Continental Refrigerator Corp.

PHONE:

() 524-0400

AND:

Jim Strickland

(NUS)

DISCUSSION:

I had my letter, asking for site access, returned to me today because of wrong zip code. I called Mr Miron to tell him of the delay of the letter. We were to have a site visit Friday - March 9th. But Mr Miron will be gone to Texas that day. We made arrangements to perform our site visit March 16th (Friday) at 9:00. I made the necessary changes in the letter, and had it sent to him.

ACTION ITEMS:

CONTROL NO:

DATE:

2-29-84

TIME:

12:00

DISTRIBUTION:

BETWEEN:

Frank Holmes

OF:

D.C.R.

PHONE:

(215) 270-1920

AND:

Jim Strickland

(NUS)

DISCUSSION:

Frank returned my call - with reference to a site visit to the AIW Frank Site. We made arrangements to meet with each other Friday - March 9, to perform the site visit.

ACTION ITEMS:

CONTROL NO:

DATE:

2-28-84

TIME:

2:30

DISTRIBUTION:

BETWEEN:

Chester Co. Water Resource Dept.

OF:

Chester Co.

PHONE:

(215) 692-7878

AND:

Jim Sorensen

(NUS)

DISCUSSION:

Requested some general information on the local water supply in the area of the ATW Frank Site.

ACTION ITEMS:

CONTROL NO:

DATE:

2-27-84

TIME:

10:30

DISTRIBUTION:

BETWEEN:

Frank Holmes

OF:

D.E.R.

PHONE:

(215) 270-1920

AND:

Jim Swickland.

(NUS)

DISCUSSION:

I called Frank Holmes to set up a time and Day he would like to do a site visit to the ATW Frank Property. He was out in the field, so I left a message for him to get back to me.

ACTION ITEMS:

CONTROL NO:

DATE:

TIME:

2-27-84

10:35

DISTRIBUTION:

BETWEEN:

Herman Miron

OF: Continental Refrigerator Corp.

(present owners of the Frank Site)

PHONE:

(215) 524-0400

AND:

Jim Swickland

(NUS)

DISCUSSION:

I called to get permission to visit the ATW Frank Site. Mr Miron requested a letter stating who NUS was, and the reason for our visit. I said I would send him a letter, and talk to Frank Holmes (Dor) before we set a time and date for the visit.

ACTION ITEMS:

CONTROL NO:

DATE:

3/19/84

TIME:

1:00

DISTRIBUTION:

BETWEEN:

Frank Holmes

OF:

PA. Der

PHONE:

() 270-1920

AND:

Jim Stubbland

(NUS)

DISCUSSION:

Frank Holmes returned my previous call to him. He has to appear in Court Tuesday (March 19) so he cannot make the site visit with us to the ATW bank property at 10:30 (March 19). We also discussed any Permit and Regulatory Action History at the site, and to his knowledge, there is none.

ACTION ITEMS:

CONTROL NO:	DATE: 9-19-84	TIME:
-------------	------------------	-------

DISTRIBUTION:
AIW Franks
8402-06

BETWEEN:	OF:	PHONE: ()
----------	-----	---------------

AND:
James Strickland (NUS)

DISCUSSION:

St Phillips and James Church - Spoke to "Keys Service" They service the Church's Well. They gave me an estimated depth of between 120-150 feet. The Church has its pump lowered to 80 feet in depth.
Keys # (215) 644-2886 1100 hrs

Church Farm School - Spoke with Leroy Coer (215) 363-7500 He stated that the well at the school is approximately 90 feet deep, and at times exhibits a high water table.

Wuchan Twp Municipal Authority - (215) 363-6265 - Spoke to Mr Ed Clayton. He stated that their 6 wells which service the Exton Area have an average depth of 200 to 300 feet. He also stated that the Aquifer to which all the wells are tapped into is what they call the "Conestoga formation". 1330 hrs.

West Whitland Twp Municipal Authority - (215) 363-9525 - Their

ACTION ITEMS:

Municipal wells in the area of the site, are approximately 95 and 98 feet in depth. 1515 hrs.