

ARCS

Remedial Planning Activities
at Selected Uncontrolled
Hazardous Substance Disposal
Sites in Region I

Site:	<i>Ne 1406</i>
Break:	<i>1.3</i>
Other:	<i>#18894</i>



Environmental Protection Agency
Region I

ARCS Work Assignment No. 08-1JZZ

PF Industries
Wolcott, CT
CTD982196677
TDD# 9105-01-ATS

Site Inspection
Final Report

April 1993

TRC
Companies, Inc.

TAMS Consultants, Inc.
PEI Associates, Inc.
Jordan Communications, Inc.

#18894

**SITE INSPECTION
PF INDUSTRIES
WOLCOTT, CONNECTICUT**

CTD982196677

FINAL REPORT

Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
Region I
90 Canal Street
Boston, Massachusetts 02203-2211**

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EPA Region:	I
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INTRODUCTION

TRC Companies, Inc. (TRCC) was contracted by the Region I U.S. Environmental Protection Agency (EPA) Waste Management Division to perform a Site Inspection (SI) of the PF Industries property located in Wolcott, Connecticut. All tasks were conducted in accordance with Work Assignment No. 08-1JZZ under EPA Contract No. 68-W9-0033. A Preliminary Assessment of this property was completed by the Connecticut Department of Environmental Protection (CTDEP) in April 1989 (CTDEP, 1989a). A Site Inspection was initiated based upon information provided in the Preliminary Assessment.

Background information used in the preparation of this report was obtained through file searches conducted at the CTDEP in Hartford, CT and the Town Offices of Wolcott, CT. Information was also collected during TRCC's onsite reconnaissance conducted on September 17, 1992 and environmental sampling on October 7, 1992.

This Site Inspection report satisfies the guidelines developed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended, commonly referred to as Superfund. However, this document does not necessarily fulfill the requirements of other EPA regulations such as those under the Resource Conservation and Recovery Act (RCRA) or other federal, state, or local regulations. Site Inspections are intended to provide a preliminary screening of sites to facilitate EPA's assignment of site priorities. They are limited efforts and are not intended to supersede more detailed investigations.

SITE DESCRIPTION

The PF Industries property is located at 14 Venus Drive in Wolcott, New Haven County, Connecticut (Figure 1). Geographic coordinates are 41° 34' 34" north latitude and 73° 00' 10" west longitude (Jones, 1992a). The property is approximately 43,560 square feet in size and is designated as lot No. 9 on the Wolcott Assessor map No. 109 (TRCC, 1992). The property is included in the study area associated with the Nutmeg Valley National Priorities List (NPL)



BASE MAP IS A PORTION OF THE FOLLOWING 7.5' U.S.G.S. QUADRANGLES:
 WATERBURY, CT, 1968, PHOTOREVISED 1984; SOUTHINGTON, CT, 1968, PHOTOREVISED 1984



QUADRANGLE LOCATION

LOCATION MAP

PF INDUSTRIES
 WOLCOTT, CONNECTICUT

TRC Companies, Inc.

Figure 1.

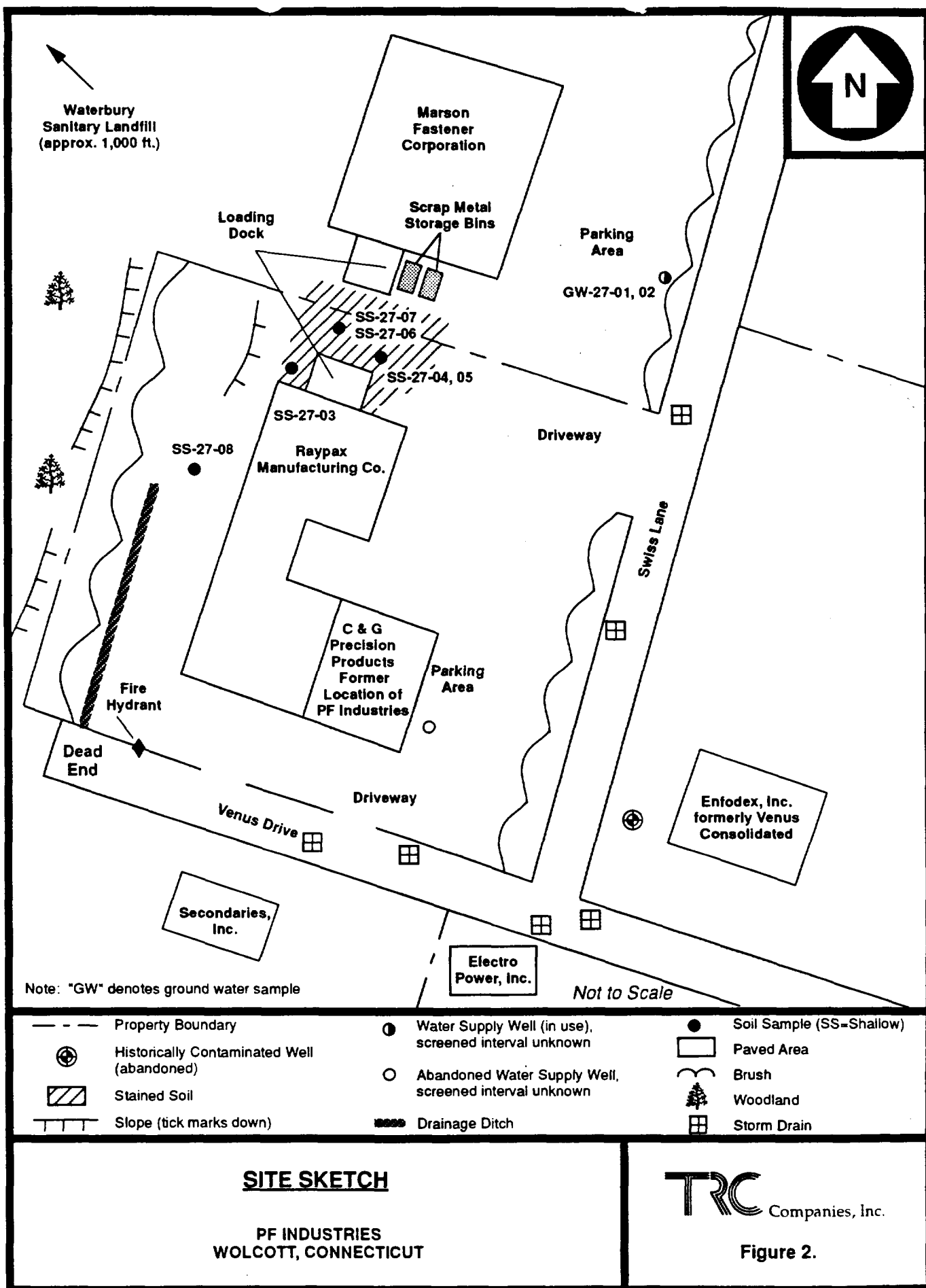
site and lies within the Route 69 Industrial Area (CTDEP, 1989a). The Route 69 Industrial Area encompasses 680 acres along the Waterbury-Wolcott Town Line (Goodkind, 1986). Currently, 95 acres are developed with light industrial, commercial, and residential properties (Goodkind, 1986). The PF Industries property is one of approximately sixty parcels in the Industrial Area (Goodkind, 1986). Appendix A lists the current occupants of the Route 69 Industrial Area.

The PF Industries property is currently owned by Mr. Louis Albert of Wolcott, Connecticut. The property was added to the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) on December 28, 1988 via notification from the CTDEP (EPA, 1992a).

The property consists of one single-story building divided into two separate businesses (TRCC, 1992). From 1984 to 1989, PF Industries leased the eastern side of the building from the property owner to operate a small machine shop (CTDEP, 1989b). Industrial processes included metal machining, degreasing, and tool cleaning (CTDEP, 1989b). The eastern portion of the building is currently leased to C&G Precision Products, a screw machine company (two employees) (TRCC, 1992). The western side of the building is occupied by Raypax Manufacturing Co., Inc. (twelve employees), a facility on EPA's list of RCRA hazardous waste generators (EPA, 1992b; TRCC, 1992). Raypax Manufacturing Co., Inc. (Raypax) has operated an automatic screw machine shop at this location since July 1973 (Jones, 1992b).

Paved areas cover approximately forty percent of the land surface on the property (TRCC, 1992). The area on the western side of the property is unpaved and sparsely covered with vegetation (TRCC, 1992). A loading dock is located on the northern side of the property and is currently used by Raypax Manufacturing Co., Inc (TRCC, 1992). The area surrounding the loading dock is unpaved (TRCC, 1992) (Figure 2).

In July 1992, a private drinking water well located at 14 Venus Drive, on the southeast side of the building, was disconnected and the property was connected to the Waterbury Municipal



Water Department (Jones, 1992h). According to the property owner, the drinking water well at 14 Venus Drive is inaccessible; water pipes previously connected to the well have been disconnected (Jones, 1992d). TRCC personnel were unable to locate the wellhead during the site reconnaissance (TRCC, 1992). It is unknown if the wellhead is still intact and accessible.

During TRCC's site reconnaissance, approximately 100 square feet of stained soil were observed around the perimeter of the loading dock (TRCC, 1992). In addition, stained soil was observed directly adjacent to a loading dock and underneath two storage bins containing metal turnings at 10 Swiss Lane (TRCC, 1992). Currently, Marson Fastener Corporation occupies the building located at 10 Swiss Lane (TRCC, 1992). Marson Fastener Corporation is a rivet manufacturer employing approximately nine people (Jones, 1993a). There are no barriers to vehicular or pedestrian traffic on the PF Industries property (TRCC, 1992). Venus Drive and Swiss Lane were connected to the municipal sewer system in the early 1970s (CTDEP, 1989b). All industrial and commercial properties were mandated to connect to the municipal sewer system (Jones, 1993c).

Table 1 presents all identified structures or areas at the PF Industries property which are potential sources of contamination. The containment features and the relative location of each source are also presented in the table.

Seventeen RCRA notifiers are located in Wolcott, Connecticut (EPA, 1992b). The CERCLA sites within a one mile radius of the PF Industries property are listed in Table 2.

SITE ACTIVITY/HISTORY

The PF Industries property has been owned by Louis Albert since approximately 1967 (TRCC, 1992). From 1984 to 1989, PF Industries leased the eastern side of the building to operate a small machine shop (CTDEP, 1989b). In 1988, manufacturing operations at the property were discontinued (CTDEP, 1989b). A sales office remained on the property until 1989, when PF Industries went out of business (CTDEP, 1989b). PF Industries employed approximately five individuals (CTDEP, 1989b). Manufacturing operations included the

TABLE 1. SOURCE EVALUATION		
Potential Source Area	Containment Factors	Spatial Location
Contaminated Soil	None	unpaved area surrounding loading dock on northern side of property
Former Cold Dip Tank (contained methylene chloride)	Within building; not inspected by TRCC personnel	inside eastern portion of building (former location of PF Industries)
Vapor Degreaser Tank (contained trichloroethane, historically methylene chloride)	Within building; not inspected by TRCC personnel	inside western portion of building (location of Raypax Manufacturing Co.)
4-55 gallon drums (contents unknown)	None	adjacent to building; area facing Venus Drive

(CTDEP, 1988a; TRCC, 1992)

TABLE 2. CERCLIS SITES LOCATED WITHIN ONE MILE OF THE PF INDUSTRIES PROPERTY		
CERCLA Facility Name	Address	ID Number
Dover Manufacturing Corp.	30 Town Line Road	CTD981069198
Electro-Power, Inc.	Venus Drive	CTD982191710
Kras Tool & Machine Co.	701 Wolcott Road	CTD001170091
Line Mfg. Inc.	Town Line Road	CTD001185917
Maily Mfg. Co.	Wakelee Road	CTD001170067
Maur-Mel Automatics	Josun Road	CTD001165851
Par Finishing	Josun Road	CTD002594836
Richards Metal Prod	Swiss Lane	CTD002592665
Waterbury Heat Treating	76 Wolcott Road	CTD001170992
Wolcott Municipal Landfill	Boundline Road EXT	CTD982191793
Nutmeg Valley Road	Nutmeg Valley Road	CTD980669261

(EPA, 1992a)

production of cut and threaded steel, brass, and aluminum bar stock (CTDEP, 1989a).

Industrial processes involved metal machining, degreasing, and tool cleaning using kerosene (CTDEP, 1989b). One above-ground, cold dip tank was reportedly located inside the eastern portion of the building (CTDEP, 1988a). The tank contained methylene chloride (CTDEP, 1988a). The size of the cold dip tank is unknown. No information collected during the file review indicated that the tank had ever released hazardous substances to the environment.

According to Mr. Peter Familigietti, president of PF Industries, methylene chloride was

TABLE 3. HAZARDOUS WASTE QUANTITY					
Tenant	Substance	Quantity	Years of Use/ Storage	Years of Disposal	Source Area
PF Industries	methylene chloride	28 gal/yr	1984 - 1989	N/A	Unknown
	kerosene/cutting oils	20 gal/yr	1984 - 1989	N/A	Unknown
Raypax Mfg. Co., Inc.	methylene chloride	12.5 gal/yr	1973 - 1985	N/A	Unknown
	trichloroethane	110 gal/yr	1985 - present	N/A	Unknown
	mineral spirits	37 gal/yr	1973 - present	N/A	Unknown
C&G Precision Products	carbon tetrachloride	unknown	1989 - present	N/A	Unknown
	lubricating oils	132 gal/yr	1989 - present	N/A	Unknown
	mineral spirits	240 gal/yr	1989 - present	N/A	Unknown
	cutting oils	220 gal/yr	1989 - present	N/A	Unknown

(CTDEP, 1988a; Jones, 1992b,c,e,f,g; Jones, 1993b).

supplied and removed from the property by Hubbard Hall Chemical Company (CTDEP, 1988a, 1989b). The kerosene/waste oil mixtures were given to a local asphalt contractor (CTDEP, 1988a, 1989b). No record of waste manifests or waste removals was included with the available file information.

Currently, C&G Precision Products, a small screw machine shop occupies the eastern side of the building (two employees) (TRCC, 1992). C&G Precision Products uses mineral spirits (240 gallons/year) supplied and removed from the property by Safety Kleen (Jones, 1993b). C&G Precision Products also use cutting oils (220 gallons/year) and lubricating oils (132

gallons/year) in their operations (Jones, 1993b). These machine oils are supplied by Wesson Oils of Waterbury, CT (Jones, 1993b). According to Mr. Carmen Montalto, an employee of C&G Precision Products, the waste oils are "recycled or used up" during the manufacturing process (Jones, 1993b). Carbon tetrachloride is also used by C&G Precision Products in their operations, however, the quantity used and the method of disposal is unknown (Jones, 1992e).

Since 1973, Raypax Manufacturing Co., Inc. (Raypax) has leased the western side of the building from the current property owner (Jones, 1992b). Raypax is an automatic screw machine company employing twelve individuals (Jones, 1992b). Manufacturing operations include metal machining, degreasing, and tool cleaning (Jones, 1992b). Raypax uses trichloroethane (110 gallons/year) and Sparsol #13 (37 gallons/year) in their operations; historically, methylene chloride (12.5 gallons/year) was used by Raypax instead of trichloroethane (Jones, 1992c). Trichloroethane is reportedly used in an above-ground vapor degreaser tank (Jones, 1992c). The vapor degreaser tank, the size of which is unknown, is reportedly located inside the western portion of the building (TRCC, 1992). According to Mr. Greg Marcoux, president of Raypax, the company has not needed to change the trichloroethane in the degreaser tank to date (TRCC, 1992). Sparsol #13 is assumed to be the trade name of a solvent produced by Safety Kleen and is thought to consist primarily of mineral spirits (Jones, 1992b). Since 1973, Environment Waste Resources has removed approximately 500 gallons of Sparsol #13 from the property (Jones, 1992c). Approximately 150 gallons of waste methylene chloride was removed in November 1985 by Hubbard Hall Chemical Company (Jones, 1992c).

Information regarding additional tenants at 14 Venus Drive prior to PF Industries, Raypax Manufacturing Co., Inc., and C&G Precision Products was not located in the available file information.

On January 8, 1986, Goodkind & O'Dea, Inc. completed a report for the Town of Wolcott entitled *An Engineering Report and Study of Contaminated Wells and Supply of Potable Water for the Southerly Industrial Area along Route 69 in Wolcott, CT*. The report

summarized previous ground water sampling investigations by the CTDEP, the Chesprocott Health District (CHD), and the Connecticut Department of Health Service (DHS) in the Route 69 Industrial Area (Goodkind, 1986). The following is a summary of the ground water investigations in the Route 69 Industrial Area between 1978 and 1984:

- From 1978 to 1979, the CTDEP and the CHD conducted ground water sampling of private drinking water wells located north of the Route 69 Industrial Area (Goodkind, 1986). The investigation determined that ground water contamination existed in the Route 69 Industrial Area; however, the source and extent of the contamination were inconclusive (Goodkind, 1986). The complete analytical results were not located in the available file information.
- From 1980 to 1981, further investigation of potential well contamination areas in the Route 69 Industrial Area was conducted by the CTDEP, CHD, and DHS. The investigation focused on the Route 69 Industrial Corridor between two intersections with Potuccus Road, and the Industrial Area along the Waterbury Town Line (Goodkind, 1986). Twenty drinking water wells in the Route 69 Industrial Area along the Waterbury Town Line were sampled and analyzed for volatile organic compounds (VOCs) by an unspecified method (Goodkind, 1986). The original analytical data is not available; therefore detection limits are unknown. The screen interval of the drinking water wells is also not known. Five drinking water wells located in the Route 69 Industrial Area were identified as contaminated with VOCs (Goodkind, 1986). The private well at Mailly Manufacturing, approximately 400 feet south of the PF Industries property, was contaminated with benzene above the Connecticut DHS action level (Goodkind, 1986). The well at Enfodex Incorporated (formerly Venus Consolidated), approximately 200 feet south of the PF Industries property, was contaminated with trichloroethene above the Connecticut DHS action level (Goodkind, 1986). No VOCs were detected in the former well located at 14 Venus Drive (Goodkind, 1986). The report concluded that the ground water had been impacted by the local industrial activity; however, no individual sources were identified (Goodkind, 1986). A map of the well locations and a summary of the analytical results are presented in Appendix B and C of this report.
- In 1984, the CHD sampled seven additional private wells in the Route 69 Industrial Area (Goodkind, 1986). The investigation revealed that five additional drinking water wells in the Route 69 Industrial Area were contaminated with VOCs (Goodkind, 1986). None of the contaminated wells were located within 500 feet of the PF Industries property (TRCC, 1992). A map of the well locations and a summary of the analytical results are presented in Appendix B and C of this report.

In September and October 1985, Goodkind & O'Dea sampled fifty-three drinking water wells in the Route 69 Industrial Area (Goodkind, 1986). The samples were analyzed for VOCs by Environmental Monitoring Laboratory of Meriden, Connecticut (Goodkind, 1986). The

analytical methods and detection limits were not included in Goodkind & O'Dea's report. The screen interval of the drinking water wells is not known. VOCs were detected at concentrations exceeding the Connecticut DHS action levels in eight drinking water wells (Goodkind, 1986). No VOCs were detected in the former well located at 14 Venus Drive during Goodkind & O'Dea's 1985 investigation (Goodkind, 1986). The report concluded that the contamination appeared to exist in three distinct areas of the Route 69 Industrial Area (Goodkind, 1986). The PF Industries property lies in the northeast portion of one of the contamination areas (TRCC, 1992).

On February 8, 1988, NUS/FIT reported several drums of unknown contents on the eastern side of the PF Industries property during a perimeter survey of Electro-Power, Inc. located east of the PF Industries property (EPA, 1988). NUS/FIT filed a Notification of Hazardous Waste Site form with the EPA (EPA, 1988). As a result of the notification, EPA personnel filed a complaint against PF Industries with the CTDEP on May 3, 1988 (CTDEP, 1988b).

On May 12, 1988, the CTDEP conducted a Hazardous Waste Inspection of PF Industries (CTDEP, 1988a). Drums were not discovered on the property, however, the following deficiencies were noted:

- non-use of permitted transporters
- non-use of permitted treatment, storage, and disposal facilities (TSDF)
- improper disposal of hazardous waste

On September 23, 1988, the CTDEP notified PF Industries of violations of the Connecticut Hazardous Waste Management Regulations (CTDEP, 1988c). PF Industries did not respond to the CTDEP's request for an identification of all generated waste streams.

On April 26, 1989, the CTDEP completed a Preliminary Assessment (PA) of the PF Industries property (CTDEP, 1989a). The report summarized the site conditions and recommended that a medium priority SI be conducted due to the location of the site within the Nutmeg Valley NPL site (CTDEP, 1989a).

On September 17, 1992 and October 7, 1992, TRCC performed a site reconnaissance and environmental sampling, respectively, at the PF Industries property (TRCC, 1992). Four ground water and eight soil samples were collected from the PF Industries property and from property located at 10 Swiss Lane (TRCC, 1992). These samples include two trip blanks, two matrix spike/matrix spike duplicates, two duplicate samples, and one rinsate sample.

ENVIRONMENTAL SETTING

The PF Industries property is located within an industrial area in Wolcott, Connecticut. The property is bounded to the north by Marson Fastener Corporation, to the east by Enfodex Incorporated, to the south by Electro-Power, Incorporated and Secondaries, Incorporated, and to the west by property occupied by the Waterbury Sanitary Landfill (TRCC, 1992). The filled area of the Waterbury Sanitary Landfill is located approximately 1000 feet northwest of the site (TRCC, 1992). The nearest residence is located approximately 400 feet south-southeast of the property on Wakelee Road (TRCC, 1992). The nearest drinking water well is located approximately 50 feet north of the property at 10 Swiss Lane (TRCC, 1992). The well serves approximately nine employees (Jones, 1993a).

Surficial geology beneath the property is inferred to be well drained, non-stony to extremely stony, dark brown, fine sandy loam (USDA, 1975). Surficial soils were formed in compact glacial till that was derived mainly from gneiss and schist (USDA, 1975). Bedrock beneath the property is mapped as the Taine Mountain Formation; a gray, medium grained, generally well layered to well-laminated gneissic granofels (USGS, 1985). The depth to bedrock beneath the site is unknown. The PF Industries property is located outside the 500-year flood level as identified on the Flood Rate Insurance Map for Wolcott (FEMA, 1982).

Ground water beneath the site is classified as GB/GA by the CTDEP (CTDEP, 1987). This classification denotes ground water which may not be suitable for direct human consumption without prior treatment due to waste discharges, spills, leaks of chemicals, or land use impacts (CTDEP, 1987). The depth to ground water and the direction of flow have not been

established; however, the topography of the area suggests that ground water probably flows to the southeast (USGS, 1984b).

All or part of the following Connecticut cities and towns are located within four miles of the PF Industries property (populations are given in parentheses): Wolcott (13,700), Waterbury (108,961), Thomaston (6,947), Prospect (7,775), Cheshire (25,684), Plymouth (11,822), Watertown (20,456), and Southington (38,518), (U.S. Census Bureau, 1991; USGS, 1984a-d, 1969). Approximately 100,506 people live within a four mile radius of the PF Industries property (Jones, 1992i; U.S. Census Bureau, 1991; USGS, 1984a-d, 1969). Table 4 summarizes the population distribution within four miles of the PF Industries property.

Eight small public water supply systems are located within four miles of the PF Industries property (Jones, 1992i; CTDEP, 1982; CTDEP, 1986). Each community water supply is serviced by one ground water source, except for the Lakeview Convalescent Home, which obtains drinking water from one wellfield located approximately 3.2 miles east-southeast of the PF Industries property (Jones, 1992k). The wellfield is blended and contains one overburden and four bedrock wells (Jones, 1992k). The population served by each of the five wells was determined by apportioning the total population served by the blended system based upon each well's individual contribution to the total system's yield (average pumping capacity). Table 5 lists the public water supply sources within four miles of the PF Industries property.

Approximately ninety-nine percent of the residents of Wolcott are serviced by private drinking water wells (Jones, 1992j). The Route 69 industrial corridor in Wolcott, CT was connected to the Waterbury Municipal Water Department in 1989; however, only thirteen industrial and commercial properties have connected (Jones, 1993c). According to the Wolcott Water District Operator, Mr. Cory Joseph, four properties have abandoned their private wells upon connection to public water (Jones, 1993c; Wolcott, 1993). Abandoned wells were rendered inaccessible by filling with a concrete mixture (Jones, 1993c). In addition, four of the thirteen properties connected to public water still utilize their private wells for purposes other than domestic consumption (i.e., cooling water, air conditioners,

ground water monitoring, and fire service) (Wolcott, 1993). Appendix D of this report lists the industrial and commercial properties connected to the Waterbury Municipal Water Department and the current status of their private wells. Approximately 12,520 people obtain drinking water from private ground water wells within four miles of the PF Industries property (Jones, 1992i-v; Gabis, 1992; Perkins, 1992; Plumb, 1992; USGS, 1984a-d, 1969). Table 6 summarizes the approximate population served by private ground water wells based upon radial distance from the PF Industries property.

TABLE 4. POPULATION DISTRIBUTION WITHIN FOUR MILES OF THE PF INDUSTRIES PROPERTY			
Radial Distance from PF Industries (miles)	Town	Approximate Population	Subtotal
Onsite (workers)	Wolcott	14	14
0.00-0.25	Wolcott Waterbury	74 252	326
0.25-0.50	Wolcott Waterbury	207 1,007	1,214
0.50-1.00	Wolcott Waterbury	1,047 4,114	5,161
1.00-2.00	Wolcott Waterbury	2,421 19,225	21,646
2.00-3.00	Wolcott Waterbury Cheshire Plymouth	3,971 34,504 197 0	38,672
3.00-4.00	Wolcott Waterbury Cheshire Plymouth Watertown Thomaston Prospect Southington	2,673 29,299 682 215 57 8 431 122	33,487
TOTAL			100,520

(Jones, 1992b, 1992e, 1992i, U.S. Census, 1991; USGS, 1984a-d, 1969)

TABLE 5. PUBLIC WATER SUPPLY SOURCES WITHIN FOUR MILES OF THE PF INDUSTRIES PROPERTY

Distance/ Direction from PF Industries	Source Name	Location of Source	Approximate Population Served	Source Type
1.5 miles NW	Lake Hills Village (condominiums)	Wolcott, CT	132	Bedrock
1.8 miles NW	Arrowhead by the Lake (condominiums)	Wolcott, CT	123	Bedrock
2.4 miles NE	Wolcott High School	Wolcott, CT	915	Screen interval unknown
2.3 miles N	Wolcott View Manor (nursing home)	Wolcott, CT	140	Screen interval unknown
3.8 miles SSE	East View Manor (nursing home)	Prospect, CT	30	Screen interval unknown
3.2 miles ESE	Lakeview Convalescent Home (nursing home) Well # 1 Well # 2 Well # 3 Well # 4 Well # 5	Cheshire, CT	13 39 13 129 77	Bedrock Bedrock Bedrock Overburden Bedrock
3.2 miles ESE	Hillside Community Well	Cheshire, CT	48	Screen interval unknown
3.2 miles ESE	Lakeview Apartments	Cheshire, CT	23	Screen interval unknown
TOTAL			1,682	

(CTDEP, 1982; CTDEP, 1986; Jones, 1992i-v; Plumb, 1992; USGS, 1984a-d, 1969)

TABLE 6. PRIVATE WELL USERS LOCATED WITHIN FOUR MILES OF THE PF INDUSTRIES PROPERTY	
Radial Distance from PF Industries (miles)	Approximate Population Served by Private Wells
Onsite	0
0.00-0.25	69
0.25-0.50	195
0.50-1.00	977
1.00-2.00	2,356
2.00-3.00	4,471
3.00-4.00	4,452
TOTAL	12,520

(Jones, 1992i-v; Gabis, 1992; Perkins, 1992; Plumb, 1992; USGS, 1984a-d, 1969)

Surface water originating at the PF Industries property flows to the south and east into storm drains located on Venus Drive and Swiss Lane, respectively (TRCC, 1992). The storm drains direct surface water through an underground drainage pipe before emptying into an intermittent unnamed stream, approximately 0.09 miles south-southeast of the property (Jones, 1992w,x). The unnamed stream empties into Old Tannery Brook (Jones, 1992x). Old Tannery Brook flows 0.22 miles south to the Mad River, approximately 0.38 miles downstream of the property (Jones, 1992x). The Mad River flows 5.75 miles south to its confluence with the Naugatuck River, approximately 6.35 miles downstream of the property (Jones, 1992x). The 15-mile downstream extent is located in the town of Naugatuck, approximately 0.79 miles downstream of the Naugatuck River's confluence with Swamp Brook (Jones, 1992x). There are no surface water supply intakes along the fifteen mile downstream extent (Jones, 1992y).

No gauging stations are located on Old Tannery Brook or the Mad River; however, U.S. Geological Survey personnel estimate that, based on the drainage area of the river and the flow rate of a similar river, Old Tannery Brook and the Mad River probably flow at an average rate of 2.70 cubic feet per second (cfs) and 28.6 cfs, respectively (Jones, 1992z). The

average flow rate of the Naugatuck River at a gauging station located on Bridge Street is 503 fs (Jones, 1992z).

The Old Tannery Brook and the Naugatuck River are bass fisheries (CTDEP, 1992c). The Mad River is a brook and brown trout fishery (CTDEP, 1992c). Appendix F of this report presents a list of fish species known to inhabit Old Tannery Brook, Mad River, and Naugatuck River. According to the CTDEP, the Mad River and Old Tannery Brook are Class B rivers, indicating they are a suitable habitat for fish and wildlife (CTDEP, 1989b).

Approximately 0.59 miles of wetland frontage exist along the unnamed stream, 0.38 miles along Old Tannery Brook, and 0.73 miles along the Mad River (Jones, 1992aa; DOI, 1980a-c). No wetlands are indicated along the Naugatuck River (DOI, 1980a-b). All wetlands located along the 15-mile surface water extent are designated as palustrine (DOI, 1980a-c). Approximately 50.3 acres of wetlands are located within one mile of the PF Industries property (Jones, 1992aa). The Connecticut Department of Environmental Protection and the Connecticut Natural Resource Center (CTNRC), report that one state endangered species, variable sedge (*Carex polymorpha*), is known to occur within one to two miles of the PF Industries property (CTDEP, 1992a-b).

RESULTS

Between 1980 and 1984, the CTDEP, the Connecticut Department of Health Services (DHS), and the Chesprocott Health District (CHD) conducted ground water sampling in the Route 69 Industrial Area. Ground water samples were collected from twenty-seven private drinking water wells (Goodkind, 1986). The samples were analyzed for VOCs using an unspecified method (Goodkind, 1986). The original analytical data are not available; therefore detection limits are not known. The screen interval of the drinking water wells is also unknown. A map of the well locations and a list of well identifiers is presented in Appendix B of this report. Analyses of ground water samples collected between 1980 and 1984 indicate that nine private wells were contaminated with VOCs above Connecticut DHS action levels (Goodkind, 1986). Benzene was detected in four private wells exceeding the action level (1 µg/L) (Goodkind, 1986). The highest concentration of benzene, 40 µg/L, was detected in the well at

Line Manufacturing, Inc. on Town Line Road in Wolcott (Goodkind, 1986). Four wells contained trichloroethene exceeding the action level (25 µg/L) (Goodkind, 1986). The highest concentration of trichloroethene, 91.7 µg/L, was detected in the well at P.A.R. Precision Inc. (Goodkind, 1986). Two wells contained carbon tetrachloride at concentrations exceeding the action level (3 µg/L) (Goodkind, 1986). The highest concentration of carbon tetrachloride, 102 µg/L, was detected in the well located at National Die Co. (Goodkind, 1986). Another chlorinated solvent, 1,2-dichloroethane was detected in the well at K.I.P. Transformers Inc. at 3.3 µg/L, slightly above the action level (1 µg/L) (Goodkind, 1986).

In 1985, the Town of Wolcott retained Goodkind & O'Dea, Inc. to conduct an engineering report and sampling/testing program of the Route 69 Industrial Area. Fifty-three private drinking water wells were sampled and analyzed for VOCs by Environmental Monitoring Laboratory of Meriden, Connecticut (Goodkind, 1986). The analytical methods and detection limits were not included in Goodkind & O'Dea, Inc.'s 1985 report. In addition, the screen interval of the drinking water wells is not known. A total of eight ground water wells were contaminated with VOCs above the Connecticut DHS action levels (Goodkind, 1986). VOC concentrations ranged from 1.1 µg/L of benzene to 320.8 µg/L of trichloroethane (Goodkind, 1986). The highest concentrations of VOCs were detected in the drinking water well located at Line Manufacturing Inc. (Goodkind, 1986). No VOCs were detected in the former drinking water well located at 14 Venus Drive (Goodkind, 1986). It is unknown whether any treatment systems were instituted for wells found to be contaminated by VOCs during the investigations conducted by the CTDEP, CHD, Connecticut DHS, and Goodkind & O'Dea, Inc.

On October 7, 1992, TRCC personnel conducted ground water sampling at 10 Swiss Lane and surface soil sampling at the PF Industries property (TRCC, 1992). A total of four ground water samples were collected from the private drinking water well located at 10 Swiss Lane. These samples include a duplicate sample (GW-27-02), a matrix spike/matrix spike duplicate sample (GW-27-01), and two trip blanks (TB-27-10, TB-27-11) (TRCC, 1992). A total of six soil samples, including a duplicate sample (SS-27-05), a matrix spike/matrix spike duplicate (SS-27-03), and an equipment rinsate blank sample (RB-27-09) were collected from the PF

Industries property (TRCC, 1992). Ground water samples (GW-27-01 and GW-27-02) and trip blank sample (TB-27-11) were analyzed for lower detection limits through EPA's Special Analytical Services (SAS). Samples TB-27-10 and TB-27-11 were analyzed for VOCs only. The soil samples were analyzed through the Contract Laboratory Program (CLP) for Target Compound List (TCL) VOCs, semi-volatile organic compounds including base neutral/acid extractable (BNAs) organic compounds, pesticides, polychlorinated biphenyls (PCBs), and Target Analyte List (TAL) inorganic elements, and cyanide.

Ground water samples collected from 10 Swiss Lane were obtained directly from an outside spigot located on the eastern side of the building, so no sampling equipment was needed. All soil samples were collected using dedicated stainless steel sampling equipment (i.e., trowels, spatulas, spoons, bowls). Soil can be described as dark brown sand, medium to coarse grained with metal fragments (TRCC, 1992). No deep soil samples were collected from stained areas surrounding the loading dock on the northern side of the building, due to heavily compacted layers of gravel. Complete ground water and soil analytical results and quantitation limits are presented in Appendix E. Table 7 includes a summary of the samples collected by TRCC personnel; the sample locations are depicted in Figure 2.

Table 8 is a summary of compounds and elements detected in samples collected by TRCC. Listing of a compound or element is based on its detection at a concentration which is at least three times greater than the concentration of the same compound or element detected in a reference sample. If the compound or element was not detected in the reference sample, the sample quantitation limit (SQL) or sample detection limit (SDL) is used as a reference value; the compound or element is listed on the table if its concentration is greater than or equal to the SQL/SDL. Compounds and elements listed on Table 8 are referred to in this report as exceeding "reference values".

For the purposes of this report, sample SS-27-08 was selected as the soil reference sample. Sample SS-27-08 was collected from an apparently undisturbed area southwest of the stained soil area surrounding the loading dock. TRCC was unable to locate a ground water reference

TABLE 7. SAMPLE SUMMARY - PF INDUSTRIES
Samples Collected by TRCC Personnel on October 7, 1992

Sample Location	Matrix	Traffic Report Number(s)	Collection Time	Type	Sample Depth (inches)	Source
GW-27-01	Aqueous	SAO387 SAO390 MABW01	12:20	GRAB	N/A	Sample collected from drinking water well located at 10 Swiss Lane.
GW-27-02	Aqueous	SAO388 SAO391 MABW02	12:22	GRAB	N/A	Duplicate of GW-27-01 for quality control purposes.
SS-27-03	Soil	ADT67 MABW03	9:34	GRAB	0-2	Soil sample collected from area of stained soil west of loading dock.
SS-27-04	Soil	ADT68RE MABW04	9:45	GRAB	0-2	Soil sample collected from area of stained soil northeast of loading dock.
SS-27-05	Soil	ADT69 MABW05	9:48	GRAB	0-2	Duplicate of SS-27-04 for quality control purposes.
SS-27-06	Soil	ADT70 MABW06	10:20	GRAB	0-2	Soil sample collected from area of stained soil north of loading dock.

TABLE 7. (CONTINUED)

Sample Location	Matrix	Traffic Report Number(s)	Collection Time	Type	Sample Depth (inches)	Source
SS-27-07	Soil	ADT71 MABW07	10:30	GRAB	6-12	Soil sample collected from area of stained soil north of loading dock.
SS-27-08	Soil	ADT72 MABW08	11:00	GRAB	0-2	Soil sample collected from western side of property.
RB-27-09	Aqueous	ADT73 MABW09	9:00	GRAB	N/A	Soil sampling equipment rinsate blank sample collected for quality control purposes.
TB-27-10	Aqueous	ADT74	9:00	GRAB	N/A	Trip blank collected for quality control purposes.
TB-27-11	Aqueous	SAO389	9:05	GRAB	N/A	Trip blank collected for quality control purposes.

TABLE 8. SAMPLE RESULTS SUMMARY
Samples Collected at PF Industries by TRCC on October 7, 1992

Sample Location	Compound/Element	Detected Concentration		Reference Value		Comments
GW-27-01	Barium	21.3	µg/L	0.70	µg/L	30.4 x SDL
	Calcium	35,200	µg/L	13.70	µg/L	2569 x SDL
	Copper	96.3	µg/L	1.90	µg/L	50.7 x SDL
	Lead	3.6	J µg/L	2.00	µg/L	1.8 x SDL
	Magnesium	3,010	µg/L	18.00	µg/L	167.2 x SDL
	Potassium	970	µg/L	79.40	µg/L	12.2 x SDL
	Sodium	9,200	µg/L	32.70	µg/L	281.3 x SDL
GW-27-02	Barium	20.9	µg/L	0.70	µg/L	29.9 x SDL
	Calcium	35,000	µg/L	13.70	µg/L	2555 x SDL
	Copper	89.6	µg/L	1.90	µg/L	47.1 x SDL
	Lead	2.6	J µg/L	2.00	µg/L	1.3 x SDL
	Magnesium	2,990	µg/L	18.00	µg/L	166 x SDL
	Potassium	933	µg/L	79.40	µg/L	11.8 x SDL
	Sodium	9,060	µg/L	32.70	µg/L	277 x SDL
SS-27-03	Dieldrin	7.0	J µg/Kg	0.54	J µg/Kg	13 x REF
	4,4'-DDE	11	J µg/Kg	2.5	J µg/Kg	4.4 x REF
	Endosulfan sulfate	52	J µg/Kg	7.2	µg/Kg	7.2 x SQL
	Methoxychlor	55	J µg/Kg	2.9	J µg/Kg	18.9 x REF
	Alpha-chlordane	21	J µg/Kg	0.62	J µg/Kg	33.9 x REF
	Gamma-chlordane	31	J µg/Kg	0.43	J µg/Kg	72.1 x REF
	Antimony	38.9	mg/Kg	3.56	mg/Kg	10.9 x SDL
	Arsenic	4.5	J mg/Kg	0.46	mg/Kg	9.7 x SDL
	Barium	525	mg/Kg	89.7	mg/Kg	5.85 x REF
	Cadmium	63.3	mg/Kg	0.21	mg/Kg	301.4 x SDL
	Chromium	51.1	J mg/Kg	11.4	J mg/Kg	4.4 x REF
	Copper	15,000	J mg/Kg	238	J mg/Kg	63.0 x REF
	Lead	4,670	mg/Kg	14.9	mg/Kg	313 x REF
	Mercury	0.37	mg/Kg	0.05	mg/Kg	7.4 x SDL
	Nickel	161	J mg/Kg	11.9	J mg/Kg	13.5 REF
	Selenium	4.8	J mg/Kg	0.76	mg/Kg	6.3 x SDL
	Silver	4.0	J mg/Kg	0.71	J mg/Kg	5.6 x REF
	Zinc	5,220	J mg/Kg	55.3	J mg/Kg	94.3 x REF

TABLE 8. (CONTINUED)

Sample Location	Compound/Element	Detected Concentration			Reference Value		Comments
SS-27-04	Heptachlor epoxide	1.9	J	µg/Kg	1.8	µg/Kg	1.0 x SQL
	Endrin	4.0	J	µg/Kg	3.5	µg/Kg	1.1 x SQL
	Endosulfan sulfate	7.5	J	µg/Kg	3.5	µg/Kg	2.1 x SQL
	Arsenic	5.3	J	mg/Kg	0.44	mg/Kg	12.0 x SDL
	Chromium	158	J	mg/Kg	11.4	J mg/Kg	13.9 x REF
	Copper	30,300	J	mg/Kg	238	J mg/Kg	127 x REF
	Lead	862		mg/Kg	14.9	mg/Kg	57.9 x REF
	Mercury	0.35		mg/Kg	0.05	mg/Kg	7 x SDL
	Nickel	47.2	J	mg/Kg	11.9	J mg/Kg	3.9 x REF
	Silver	4.3	J	mg/Kg	0.71	J mg/Kg	6.1 x REF
	Zinc	14,900	J	mg/Kg	55.3	J mg/Kg	269.4 x REF
SS-27-05	Endosulfan sulfate	8.3	J	µg/Kg	3.5	µg/Kg	2.4 x SQL
	Arsenic	26.1	J	mg/Kg	0.44	mg/Kg	59.3 x SDL
	Chromium	109	J	mg/Kg	11.4	J mg/Kg	9.56 x REF
	Copper	16,300	J	mg/Kg	238	J mg/Kg	68.5 x REF
	Lead	691		mg/Kg	14.9	mg/Kg	46.4 x REF
	Mercury	0.18		mg/Kg	0.05	mg/Kg	3.6 x SDL
	Nickel	40.8	J	mg/Kg	11.9	J mg/Kg	3.4 x REF
	Silver	202	J	mg/Kg	0.71	J mg/Kg	284.5 x REF
	Zinc	7,900	J	mg/Kg	55.3	J mg/Kg	142.7 x REF
SS-27-06	Heptachlor epoxide	9.2	J	µg/Kg	7	µg/Kg	1.3 x SQL
	4,4'-DDE	11	J	µg/Kg	2.5	J µg/Kg	4.4 x REF
	4,4'-DDT	29	J	µg/Kg	8.9	J µg/Kg	3.2 x REF
	Endrin aldehyde	10	J	µg/Kg	1.2	J µg/Kg	8.3 x REF
	Arsenic	5.3	J	mg/Kg	0.44	mg/Kg	12.0 x SDL
	Chromium	46.2	J	mg/Kg	11.4	J mg/Kg	4.0 x REF
	Copper	34,400	J	mg/Kg	238	J mg/Kg	144.5 x REF
	Lead	1,380		mg/Kg	14.9	mg/Kg	92.6 x REF
	Mercury	0.18		mg/Kg	0.05	mg/Kg	3.6 x SDL
	Nickel	81.6	J	mg/Kg	11.9	J mg/Kg	6.8 x REF
	Silver	11.7		mg/Kg	0.71	J mg/Kg	16.4 x REF
	Zinc	17,700	J	mg/Kg	55.3	J mg/Kg	320 x REF
SS-27-07	Pyrene	310	J	µg/Kg	39	J µg/Kg	7.9 x REF
	Bis(2-ethylhexyl)phthalate	360	J	µg/Kg	350	µg/Kg	1.0 x SQL
	Heptachlor epoxide	3.7	J	µg/Kg	3.6	µg/Kg	1.0 x SQL
	Copper	6,250	J	mg/Kg	238	J mg/Kg	26.3 x REF
	Lead	247		mg/Kg	14.9	mg/Kg	16.6 x REF
	Mercury	0.06		mg/Kg	0.05	mg/Kg	1.2 x SDL
	Zinc	3,360	J	mg/Kg	55.3	J mg/Kg	60.7 x REF

J - Concentration or quantitation is approximated due to limitations identified during the quality control review.

µg/Kg - micrograms per kilogram

mg/Kg - milligrams per kilogram

SDL - sample detection limit

SQL - sample quantitation limit

Ref. - sample SS-27-08

sample point for drinking water samples GW-27-01 and GW-27-02; therefore, these samples were compared SQLs and SDLs.

No VOCs, BNAs, or pesticides/PCBs were detected in drinking water samples collected from 10 Swiss Lane (GW-27-01 and GW-27-02). Six inorganics elements were detected in GW-27-01 and GW-27-02 at concentrations exceeding sample detection limits. No inorganic elements were detected above Federal Maximum Contaminant Levels (MCLs) in ground water samples collected from 10 Swiss Lane.

No VOCs were detected at concentrations exceeding reference values in soil samples collected from the PF Industries property. Two BNAs were detected at concentrations exceeding reference values in soil sample SS-27-07, collected from the stained area surrounding the loading dock. SS-27-07 was collected at a depth of approximately six to twelve inches. The presence of the BNAs in soils at the property may be related to the disposal of waste solvents and waste oils on the property (CTDEP, 1989a).

Nine pesticides were detected at concentrations exceeding reference values in soil samples collected from the PF Industries property. Six of the nine pesticides were detected in sample SS-27-03, collected from an area of stained soil west of the loading dock. Pesticide concentrations detected in sample SS-27-03 ranged from 7.0 micrograms per kilogram ($\mu\text{g/Kg}$) (dieldrin) to 55 $\mu\text{g/Kg}$ (methoxychlor). Four pesticides were detected at concentrations exceeding reference values in sample SS-27-06, collected north of the loading dock. Pesticide concentrations ranged from 9.2 $\mu\text{g/Kg}$ (heptachlor epoxide) to 29 $\mu\text{g/Kg}$ (4,4'-DDT). Sample SS-27-04 contained three pesticides, and samples SS-27-05 and SS-27-07 each contained one pesticide exceeding reference values. No records regarding the use or disposal of pesticides on the PF Industries property were located in the available files.

Twelve inorganic constituents were detected at concentrations exceeding reference values in shallow soil samples collected from the stained soil area (SS-27-03, SS-27-04 and its duplicate SS-27-05, SS-27-06, and SS-27-07). Among these constituents were antimony, arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and

zinc. Arsenic was detected in shallow soil samples at concentrations ranging from 4.5 milligrams per kilogram (mg/Kg) (SS-27-03) to 26.1 mg/Kg (SS-27-05). Mercury was detected at concentrations ranging from 0.06 mg/Kg (SS-27-07) to 0.37 mg/Kg (SS-27-03). The source of most of these metals may be the industrial processes conducted by PF Industries, Raypax Manufacturing Co., Inc., and C&G Precision Products (i.e., metal machining, degreasing, and tool cleaning). The source of the less common metals (antimony, arsenic, cadmium, mercury, selenium, and silver) is not documented in the available references.

SUMMARY

The PF Industries property is located at 14 Venus Drive in Wolcott, Connecticut. The property is included in the study area associated with the Nutmeg Valley NPL site (CTDEP, 1989a). The property consists of one single-story building divided into two separate businesses (TRCC, 1992). A loading dock is located on the northern side of the property (TRCC, 1992). During TRCC's site reconnaissance, approximately 100 square feet of stained soil were observed around the loading dock on the northern side of the building (TRCC, 1992). In addition, TRCC noted stained soil near the loading dock on the adjacent property occupied by Marson Fastener Corporation (TRCC, 1992).

From 1984 to 1989, PF Industries leased the eastern side of the building from the property owner to operate a small machine shop (CTDEP, 1989b). Wastes generated were methylene chloride for degreasing and kerosene/oil mixtures for tool cleaning (CTDEP, 1989a,b). No record of waste manifests or waste removals was included with the available file information. Currently, C&G Precision Products, a screw machine company leases this portion of the building (TRCC, 1992). The western side of the building is occupied by Raypax Manufacturing Co., Inc., an automatic screw machine shop (TRCC, 1992). Raypax has leased a portion of the building since July 1973 (Jones, 1992b).

On February 8, 1988, NUS/FIT reported several drums of unknown contents on the eastern side of the PF Industries property while conducting a perimeter survey of a business located

east of the PF Industries property (EPA, 1988). NUS/FIT filed a Notification of Hazardous Waste Site form with the EPA (EPA, 1988). As a result of the notification, EPA personnel filed a complaint with the CTDEP on May 3, 1988 (CTDEP, 1988b).

On May 12, 1988, the CTDEP conducted a Hazardous Waste Inspection of PF Industries (CTDEP, 1988a). Previously discovered drums were not found on the property; however, several deficiencies were noted regarding the use of permitted waste transporters, proper use of waste TSDFs, and the proper disposal of hazardous waste (CTDEP, 1988a).

From 1978 to 1979, the CTDEP and the CHD conducted ground water sampling of private drinking water wells located north of the Route 69 Industrial Area (Goodkind, 1986). The investigation concluded that ground water contamination existed in the Route 69 Industrial Area; however, the source and extent of the contamination was not determined (Goodkind, 1986).

From 1980 to 1984, further investigation of potential well contamination areas in the Route 69 Industrial Area was conducted by the CTDEP, CHD, and the Connecticut DHS (Goodkind, 1986). The investigation focused on the Route 69 Industrial Corridor between two intersections with Potuccus Road, and the Industrial Area along the Waterbury Town Line (Goodkind, 1986). Nine drinking water wells located in the Route 69 Industrial Area were identified as being contaminated with volatile organic compounds (VOCs), commonly found in industrial degreasers and solvents (Goodkind, 1986). Two contaminated drinking water wells are located within 500 feet of the PF Industries property; however, the former drinking water well located at 14 Venus Drive did not contain VOCs (TRCC, 1992). The report concluded that the ground water had been impacted by the local industrial activity; however, no individual sources were identified (Goodkind, 1986).

In August 1985, Goodkind & O'Dea sampled approximately fifty-three drinking water wells in the Route 69 Industrial Area (Goodkind, 1986). Eight drinking water wells contained VOCs at concentrations exceeding the Connecticut DHS action levels (Goodkind, 1986). The

report concluded that the contamination appeared to exist in three distinct areas of the Route 69 Industrial Area (Goodkind, 1986). The PF Industries property is located in the northeast portion of one of these contamination areas.

On October 7, 1992, TRCC collected four ground water and eight soil samples from the PF Industries property (TRCC, 1992). Twelve inorganic elements were detected at concentrations exceeding reference values in soil samples collected from the PF Industries property. Antimony, arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc were detected above reference values in soil samples collected adjacent to the loading dock at the PF Industries property. No VOCs were detected in surface soil samples at the property. Inorganic elements were detected in ground water samples, collected from the private drinking water well, located at 10 Swiss Lane, at concentrations exceeding sample detection limits but below Federal Maximum Contaminant Levels. TRCC's ground water results do not indicate the presence of VOCs detected in previous studies, however, historical information indicates that companies at 14 Venus Drive used methylene chloride, trichloroethane, and carbon tetrachloride in their manufacturing processes.

Approximately 100,506 people live within four miles of the PF Industries property. Approximately 14 workers are employed at the PF Industries property. Approximately 12,520 people obtain drinking water from private wells located within four miles of the site, and approximately 1,682 people obtain drinking water from small community water supplies located within four radial miles. One state endangered species is known to occur within one to two miles of the PF Industries property. Approximately 50.3 acres of wetlands and 1.7 miles of wetlands are located within one mile and fifteen downstream miles; respectively, of the PF Industries property.

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APPENDIX A

**PROPERTIES WITHIN THE ROUTE 69
INDUSTRIAL AREA - WOLCOTT, CT**

TABLE 1. WOLCOTT ROUTE 69 INDUSTRIAL AREA		
Property Occupants	Address	Type of Operation
Secondaries Inc.	Venus Dr.	machine shop
Raypax Mfg. Co.	10 Venus Dr.	screw machine shop
PF Industries	10 Venus Dr.	machine shop
Marson Fastener Corp.	Swiss Lane	rivet manufacturer
Roann Electronics	Swiss Lane	electronics manufacturer
Electro-Power Inc.	Venus Dr.	unknown
Classic Tool 7 Engr.	Venus Dr.	unknown
Milanas Construction	Venus Dr.	unknown
Venus Consolidated Ind.	Venus Dr.	screw machine shop
Richard Metal Prod. Inc.	Swiss Lane	unknown
Bedard Tool Co.	66 Wakelee Rd.	unknown
Maily Mfg.	Wakelee Rd.	screw machine shop
R.J. Dollinger Electric	50 Wakelee Rd.	unknown
Barrat Tool Co. Inc.	36 Wakelee Rd.	unknown
C. Margevich/Robert Parks	16 Wakelee Rd.	residence
Hobitt House Restaurant	10 Wakelee Rd.	restaurant
Beudoin	95 Wolcott Rd.	residence
Discount Storage	33 Wolcott Rd.	storage sheds
Robert & Ranet Caisse	39 Wolcott Rd.	residence
John & Mary Brundage	45 Wolcott Rd.	residence
Getty Gas Station	47 Wolcott Rd.	gas station
Mrs. Arthur E. Dollinger	32 Wolcott Rd.	residence
Roderick Stairs	36 Wolcott Rd.	residence
M.E. Malm	46 Wolcott Rd.	residence
National Die Co.	64 Wolcott Rd.	unknown
Waterbury Heat Treating	76 Wolcott Rd.	heat-treating operations
A.E. Auto Service & Tire	Wolcott Rd.	auto repair shop
Armand Blovin	96 Wolcott Rd.	residence
James Hogue	102 Wolcott Rd.	residence
Corrado Puzzo	108 Wolcott Rd.	residence
Line Mfg. Inc.	Town Line Rd.	eylet manufacturer
Nonine	9 Town Line Rd.	machine shop
K.I.P. Transformers Inc.	13 Town Line Rd.	transformer manufacturer
P.A.R. Precision Inc.	15 Town Line Rd.	unknown
JOMA Inc.	17 Town Line Rd.	small metal stampings
Highland Mfg. Co.	1240 Wolcott Rd.	unknown
Mattatuck Scrap Metal	28 Town Line Rd.	unknown
J.D. Lucas Metal	Town Line Rd.	unknown
Coil Plus	Town Line Rd.	unknown
Structural Steel	Town Line Rd.	unknown
Fusion Engr. & Mfg.	32 Town Line Rd.	unknown

TABLE 1. (CONTINUED)		
Property Occupants	Address	Type of Operation
Quality Used Cars & Auto Body	34 Town Line Rd.	auto body shop and garage
Chem-Clean Furniture Strippers	36 Town Line Rd.	furniture refinishing
Maaco Auto Body	31 Nutmeg Valley	auto body shop
Braemer Machine	31 Nutmeg Valley	unknown
Brave Equipment Co.	31 Nutmeg Valley	unknown
Romatic Mfg. Co.	Nutmeg Valley	unknown
Metal Mold Inc.	23 Nutmeg Valley	unknown
Nutmeg Screw	15 Nutmeg Valley	metal-working, machine shop
Alpine Electronics Inc.		machine shop
King's Auto Body	Tosun Road	auto body shop
All Metal Buildings	Tosun Road	unknown
Frenchie Construction	Tosun Road	unknown
Delson Hinge Corp.	Tosun Road	unknown
The Phaneuf Co.	Tosun Road	unknown
Raymond W. Bridghe	3 Tosun Road	residence
Specialty Coil	35 Tosun Road	unknown
Simon & Gagnon Moving	35 Tosun Road	moving company
Empty	33 Tosun Road	unknown
Empty	33 Tosun Road	unknown
Dave Tosun/M&D Kilday	54 Tosun Road	residence
Residence	72 Tosun Road	residence
Richard Gordon	101 Tosun Road	residence
Richard L. Butler	117 Tosun Road	residence
R. Iattino	Tosun Road	residence
Fine Distributing Co.	Tosun Road	

APPENDIX B
WOLCOTT INDUSTRIAL AREA PLAN
December 31, 1985

TABLE OF PROPERTY OCCUPANTS

<u>PROPERTY</u> <u>LOCATION #</u>	<u>NAME OF COMPANY</u>	<u>ADDRESS</u>	<u>NO. OF</u> <u>EMPLOYEES</u>
1	Secondaries Inc.	Venus Dr.	12
2	Raypax Mfg. Co.	10 Venus Dr.	21
2	P.F. Industries	10 Venus Dr.	3
3	Marson Fastener Corp.	Swiss Lane	13
4	Roann Electronics	Swiss Lane	5
5	Electro-Power Inc.	Venus Dr.	32
5	Classic Tool 7 Engr.	Venus Dr.	6
5	Milanas Construction	Venus Dr.	5
6	Venus Consolidated Ind.	Venus Dr.	95
7	Richard Metal Prod. Inc.	Swiss Lane	20
8	Bedard Tool Co.	66 Wakelee Rd	
9	Mailly Mfg.	Wakelee Rd.	20
10	R.J. Dollinger Electric	50 Wakelee Rd.	10
11	Barratt Tool Co. Inc.	36 Wakelee Rd.	9
12	C. Margevich/Robert Parks	16 Wakelee Rd.	House
13	Hobitt House Restaurant	10 Wakelee Rd.	
14	Beudoin	95 Wolcott Rd.	House
15	Discount Storage	33 Wolcott Rd.	
16	Robert & Ranet Caisse	39 Wolcott Rd.	House
17	John & Mary Brundage	45 Wolcott Rd.	House
18	Getty Gas Station	47 Wolcott Rd.	
19	Mrs. Arthur E. Dollinger	32 Wolcott Rd.	House
20	Roderick Stairs	36 Wolcott Rd.	House
21	M.E. Malm	46 Wolcott Rd.	House
22	National Die Co.	64 Wolcott Rd.	35
23	Waterbury Heat Treating	76 Wolcott Rd.	6
24	A.E. Auto Service & Tire	Wolcott Rd.	8
25	Armand Blovin	96 Wolcott Rd.	House
26	James Hogue	102 Woldott Rd.	House
27	Corrado Puzzo	108 Wolcott Rd.	House
28	Line Mfg. Inc.	Town Line Rd	24
29	Nonine	9 Town Line Rd.	3

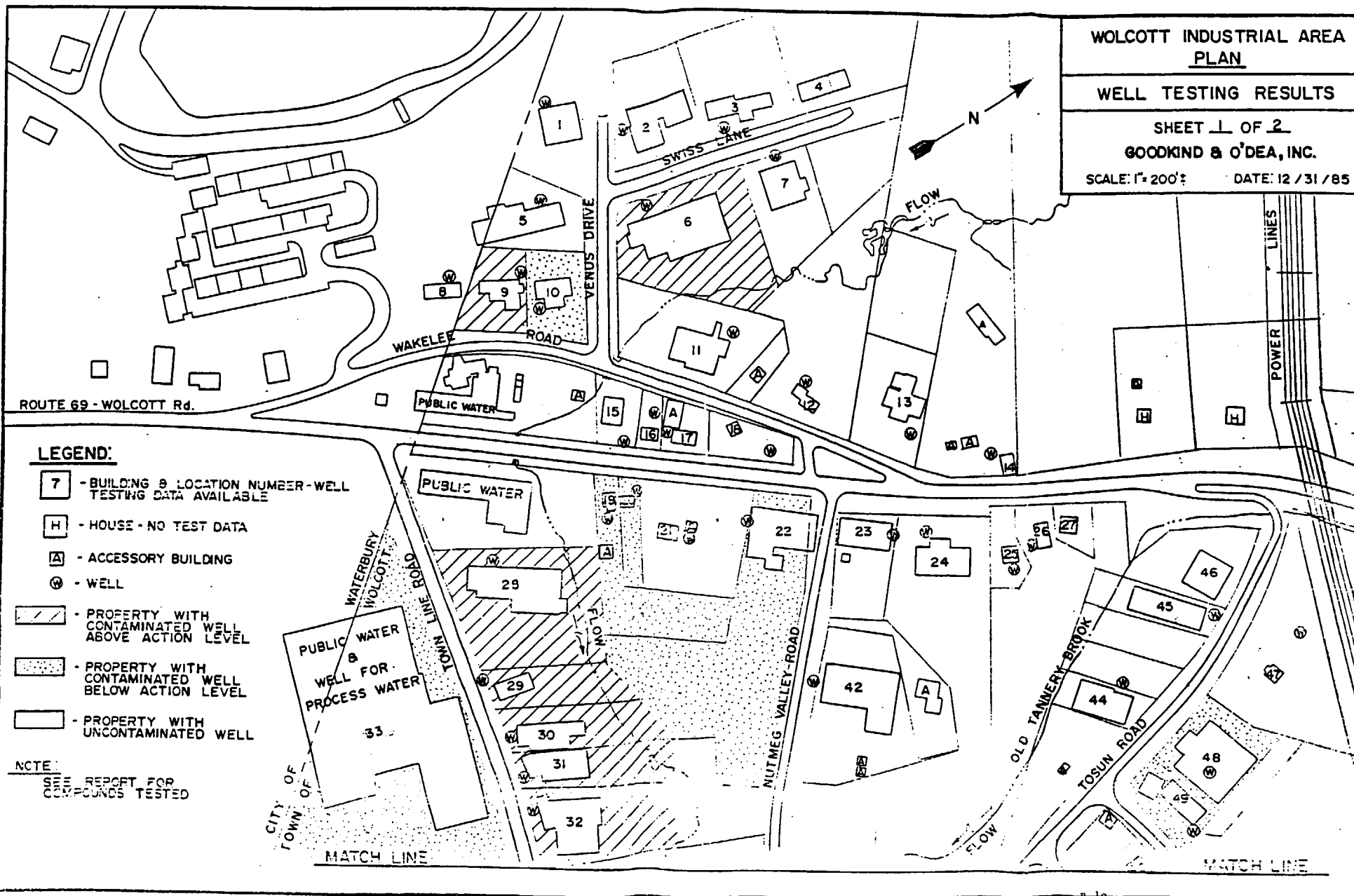
30	K.I.P. Transformers Inc.	13 Town Line Rd.	26
31	P.A.R. Precision Inc.	15 Town Line Rd.	35
32	JOMA Inc.	17 Town Line Rd.	25
33	Highland Mfg. Co.	1240 Wolcott Rd.	
34	Mattatuck Scrap Metal	28 Town Line Rd.	20
35	J.D. Lucas Metal	Town Line Rd	2
35	Coil Plus	Town Line Rd	35
35	Structural Steel	Town Line Rd	5
36	Fusion Engr. & Mfg.	32 Town Line Rd.	1
37	Quality Used Cars & Auto Body	34 Town Line Rd.	
38	Chem-Clean Furniture Strippers	36 Town Line Rd.	1
39	Maaco Auto Body	31 Nutmeg Valley	10
39	Braemer Machine	" " "	21
39	Brave Equipment Co.	" " "	1
40	Romatic Mfg. Co.	Nutmeg Valley	6
41	Metal Mold Inc.	23 " "	3
42	Nutmeg Screw	15 " "	6
42	Alpine Electronics Inc.		14
43	King's Auto Body	Tosun Road	4
44	All Metal Buildings	Tosun Road	4
44	Frenchie Construction	Tosun Road	
45	Delson Hinge Corp.	Tosun Road	15
46	The Phaneuf Co.	Tosun Road	3
47	Raymond W. Bridchge	3 Tosun Road	House
48	Specialty Coil	35 Tosun Rd.	20
48	Simon & Gagnon Moving	" " "	9
49	Empty	33 Tosun Rd.	
49	Empty	" " "	
50	Dave Tosun/M&D Kilday	54 Tosun Rd.	House
51	Residence	72 Tosun Rd.	House
52	Richard Gordon	101 Tosun Rd.	House
53	Richard L. Butler	117 Tosun Rd.	House
54	R. Iattino	Tosun Road	House
55	Fine Distributing Co.	Tosun Road	3

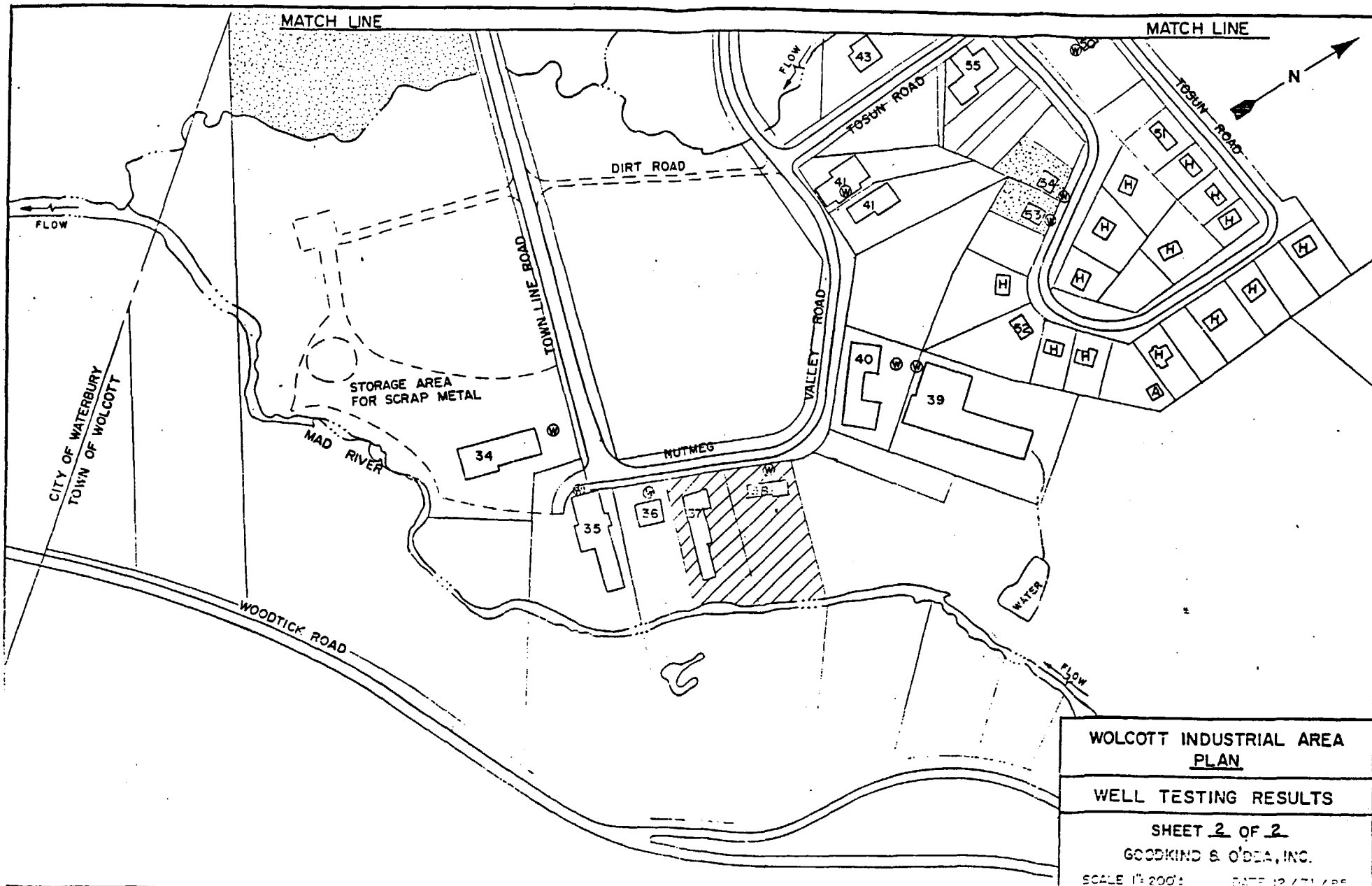
WOLCOTT INDUSTRIAL AREA PLAN

WELL TESTING RESULTS

SHEET 1 OF 2
GOODKIND & O'DEA, INC.

SCALE: 1" = 200' DATE: 12 / 31 / 85





APPENDIX C

ANALYTICAL RESULTS FROM GROUND WATER INVESTIGATIONS IN THE ROUTE 69 INDUSTRIAL AREA 1980 - 1985



STATE OF CONNECTICUT
DEPARTMENT OF HEALTH SERVICES

VOLATILE ORGANICS ACTION LEVELS

The Department of Health Services uses Public Health Code Regulation 19-13-B102 and the following list to determine the potability of drinking water supplies. The concentrations given are action levels and are expressed in micrograms per liter.

<u>COMPOUND</u>	<u>ACTION LEVEL</u> (micrograms/liter)
Acrylonitrile	35
Benzene	1
1,4 dioxane	20
Ethylene glycol	100
Isopropyl alcohol	1,000
Methylene chloride	25
Methylethyl ketone	1,000
Polychlorinated biphenyls (PCB)	1
Tetrachloroethylene (PCE)	20
Toluene	1,000
1,1,1 Trichloroethane	300
Trichloroethylene (TCE)	25
1,2 Dibromoethane (EDB)	0.1
1,2 Dichloroethane (EDC)	1
1,2 Dichloropropane	10
1,3 Dichloropropene	10

RJ/PR/ch
9/14/84

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SEP 21 1984

DEPT. OF HEALTH SERVICES
HARTFORD, CT

bb2

Phone: 566-1253

150 Washington Street — Hartford, Connecticut 06106
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C-1a

RESULTS OF WELL TESTING - VOLCOTT INDUSTRIAL AREA

CONTAMINANT CONCENTRATIONS (ug/L)

LOCATION NUMBER DATE SAMPLED SAMPLING AGENCY *	1 3/81 DHS	1 10/23/85 CHD	2 3/81 DHS	2 10/23/85 CHD	3 9/23/85 CHD	4 10/23/85 CHD	5 3/81 DHS	5 9/23/85 CHD	6 3/81 DHS	6 10/23/85 CHD	7 2/10/81 DHS
COMPOUND (ACTION LEVEL IN ug/L)											
Benzene (1)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene (680)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Toluene (1,000)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Xylenes (440)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Methylene Chloride (25)	↓	↓	↓	↓	↓	↓	15	↓	↓	2.6	↓
1,1 Dichloroethane (10 to 50)	↓	↓	↓	↓	↓	↓	< 1	↓	↓	< 1	↓
t-1,2 Dichloroethane (2)	↓	↓	↓	↓	↓	↓	↓	↓	↓	1.0	↓
Chloroform (100)	↓	↓	↓	↓	↓	↓	↓	↓	↓	< 1	↓
1,2 Dichloroethane (1)	↓	↓	↓	↓	↓	↓	↓	↓	↓	< 1	↓
1,1,1 Trichloroethane (300)	↓	↓	↓	↓	↓	↓	↓	↓	↓	9.1	↓
Carbon Tetrachloride (3)	↓	↓	↓	↓	↓	↓	↓	↓	↓	< 1	↓
1 trichloroethylene (25)	↓	↓	↓	↓	↓	↓	9.6	↓	28	27.3	↓
1,1,2,2 Tetrachloroethane (NA)	↓	↓	↓	↓	↓	↓	< 1	↓	< 1	< 1	↓
Tetrachloroethylene (20)	↓	↓	↓	↓	↓	↓	1.7	↓	7.2	3.2	↓
Pentane (300 to 450)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

*CHD - Chesprocott Health District

DHS - Dept. of Health Services

CCU - Water Compliance Unit

RESULTS OF WELL TESTING - WOLCOTT INDUSTRIAL AREA

CONTAMINANT CONCENTRATIONS (ug/L)

LOCATION NUMBER DATE SAMPLED SAMPLING AGENCY *	7 9/10/84 CHD	7 10/23/85 CHD	8 8/81 CHD	8 9/81 CHD	8 10/25/85 CHD	9 2/10/81 DHS	9 10/23/85 CHD	10 9/23/85 CHD	11 3/81 DHS	11 10/23/85 CHD	12 9/23/85 CHD
COMPOUND (ACTION LEVEL IN ug/L)											
Benzene (1)	< 1	< 1	< 1	< 1	< 1	25	6.2	< 1	< 1	< 1	< 1
Ethylbenzene (680)	↓	↓	↓	↓	↓	< 1	1.1	↓	↓	↓	↓
Toluene (1,000)	↓	↓	↓	↓	↓	↓	1.3	↓	↓	↓	↓
Xylenes (440)	↓	↓	↓	↓	↓	↓	< 1	↓	↓	↓	↓
Methylene Chloride (25)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,1 Dichloroethane (10 to 50)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
t-1,2 Dichloroethane (2)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Chloroform (100)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,2 Dichloroethane (1)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,1,1 Trichloroethane (300)	↓	↓	↓	↓	↓	↓	1.2	3.8	↓	↓	↓
Carbon Tetrachloride (3)	↓	↓	↓	↓	↓	↓	< 1	< 1	↓	↓	↓
Trichloroethylene (25)	↓	↓	↓	↓	↓	↓	5.5	7.8	↓	↓	↓
1,1,2,2 Tetrachloroethane (NA)	↓	↓	↓	↓	↓	↓	1.1	< 1	↓	↓	↓
Tetrachloroethylene (20)	↓	↓	↓	↓	↓	↓	16.2	1.4	↓	↓	↓
Pentane (300 to 400)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

*CHD - Chesapeake Health District

DHS - Dept. of Health Services

CHD - Water Compliance Unit

RESULTS OF WELL TESTING - VOLCOTT INDUSTRIAL AREA

CONTAMINANT CONCENTRATIONS (ug/L)

LOCATION NUMBER	13	13	14	15	16	17	18	19	19	19	20
DATE SAMPLED	9/23/85	10/23/85	10/25/85	9/25/85		9/25/85	9/23/85	3/20/81	6/16/81	10/25/85	9/25/85
SAMPLING AGENCY *	CHD	CHD	CHD	CHD		CHD	CHD	DHS	CHD	CHD	CHD
COMPOUND (ACTION LEVEL IN ug/L)					UNABLE TO SAMPLE - NO ACCESS AVAILABLE						
Benzene (1)	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene (680)	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓
Toluene (1,000)	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓
Xylenes (440)	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓
Methylene Chloride (25)	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓
1,1-Dichloroethane (10 to 50)	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓
1,1,2-Dichloroethane (2)	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓
Chloroform (100)	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓
1,2-Dichloroethane (1)	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓
1,1,1-Trichloroethane (300)	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓
Carbon Tetrachloride (3)	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓
Trichloroethylene (25)	↓	↓	↓	↓		↓	↓	15	12	6.5	7.8
1,1,2,2-Tetrachloroethane (NA)	↓	↓	↓	↓		↓	↓	< 1	< 1	< 1	< 1
Tetrachloroethylene (20)	↓	↓	↓	↓		↓	↓	↓	↓	↓	< 1
Pentane (300 to 400)	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓

RESULTS OF WELL TESTING - WOLCOTT INDUSTRIAL AREA

CONTAMINANT CONCENTRATIONS (ug/L)

LOCATION NUMBER	37	37	38	38	39	40	41	41	42	42	42
DATE SAMPLED	12/34	10/25/85	12/84	10/25/85	9/25/85	9/25/85	7/7/81	9/25/85	12/22/80	11/2/81	9/25/85
SAMPLING AGENCY *	CHD	CHD	CHD	CHD	CHD	CHD	CHD	CHD	DHS	DHS	CHD
COMPOUND (ACTION LEVEL IN ug/L)											
Benzene (1)	13.6	1.1	8.1	1.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene (680)	8.0	1.1	< 1	5.6	↓	↓	↓	↓	↓	↓	↓
Toluene (1,000)	15.1	1.3	49.1	3.8	↓	↓	↓	↓	↓	↓	↓
Xylenes (440)	14.7	2.5	67	30.0	↓	↓	↓	↓	↓	↓	↓
Methylene Chloride (25)	< 1	< 1	34.8	< 1	↓	↓	↓	↓	↓	↓	↓
1,1 Dichloroethane (10 to 50)	↓	↓	75	↓	↓	↓	↓	↓	↓	↓	↓
t-1,2 Dichloroethene (2)	↓	↓	< 1	↓	↓	↓	↓	↓	↓	↓	↓
Chloroform (100)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,1,2 Dichloroethane (1)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,1,1 Trichloroethane (300)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Carbon Tetrachloride (3)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Trichloroethylene (25)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,1,2,2 Tetrachloroethane (2A)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Tetrachloroethylene (20)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Pentane (300 to 400)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

*CHD - Chesapeake Health District

DHS - Dept. of Health Services

↓ - Not a Compliance Value

RESULTS OF WELL TESTING - WOLCOTT INDUSTRIAL AREA

CONTAMINANT CONCENTRATIONS (ug/L)

LOCATION NUMBER	32	32	32	32	33	33	34	34	34	35	36
DATE SAMPLED	2/81	4/81	9/84	10/25/85	3/81	10/23/85	2/81	12/84	10/25/85	9/25/85	9/25/85
SAMPLING AGENCY *	DHS	DHS	CHD	CHD	DHS	CHD	DHS	CHD	CHD	CHD	CHD
COMPOUND (ACTION LEVEL IN ug/L)											
Benzene (1)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene (680)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Toluene (1,000)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Xylenes (440)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Methylene Chloride (25)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,1 Dichloroethane (10 to 50)	↓	↓	↓	1.8	↓	↓	↓	↓	↓	↓	↓
t-1,2 Dichloroethene (2)	↓	↓	↓	65.9	↓	↓	↓	↓	↓	↓	↓
Chloroform (100)	↓	↓	↓	< 1	↓	↓	↓	↓	↓	↓	↓
1,2 Dichloroethane (1)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,1,1 Trichloroethane (300)	↓	14	↓	↓	44	40.8	↓	↓	↓	↓	↓
Carbon Tetrachloride (3)	↓	< 1	↓	↓	< 1	< 1	↓	↓	↓	↓	↓
Trichloroethylene (25)	↓	6.7	30	310.8	< 1	< 1	↓	↓	↓	↓	↓
1,1,2,2 Tetrachloroethane (NA)	↓	< 1	< 1	< 1	< 1	< 1	↓	↓	↓	↓	↓
Tetrachloroethylene (20)	↓	< 1	< 1	2.1	2.0	< 1	↓	↓	↓	↓	↓
Pentane (300 to 400)	↓	< 1	< 1	↓	< 1	↓	↓	↓	↓	↓	↓

*CHD - Chesapeake Health District

DHS - Dept. of Health Services

WU - Water Compliance Unit

RESULTS OF WELL TESTING - WOLCOTT INDUSTRIAL AREA

CONTAMINANT CONCENTRATIONS (ug/L)

LOCATION NUMBER	21	22	22	23	23	23	24	25	26	27	28
DATE SAMPLED	9/25/85	6/81	10/25/85	12/22/80	1/12/81	9/25/85	10/25/85	10/25/85	10/25/85	9/25/85	2/10/81
SAMPLING AGENCY *	CHD	CHD	CHD	CHD	DHS	CHD	CHD	CHD	CHD	CHD	DHS
COMPOUND (ACTION LEVEL IN ug/L)											
Benzene (1)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene (680)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Toluene (1,000)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Xylenes (440)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Methylene Chloride (25)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,1 Dichloroethane (10 to 50)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,2 Dichloroethane (2)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Chloroform (100)	↓	13.3	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,2 Dichloroethane (1)	↓	< 1	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,1,1 Trichloroethane (300)	↓	< 1	↓	↓	↓	↓	↓	↓	↓	↓	↓
Carbon Tetrachloride (3)	↓	102	↓	↓	↓	↓	↓	↓	↓	↓	↓
Trichloroethylene (25)	↓	13.3	1.3	↓	↓	↓	↓	↓	↓	↓	↓
1,1,2,2 Tetrachloroethane (NA)	↓	< 1	< 1	↓	↓	↓	↓	↓	↓	↓	↓
Tetrachloroethylene (20)	↓	< 1	< 1	↓	↓	↓	↓	↓	↓	↓	5.3
Heptane (300 to 400)	↓	14	↓	↓	↓	↓	↓	↓	↓	↓	< 1

*CHD - Cheshire Health District

DHS - Dept. of Health Services

WU - Water Compliance Unit

RESULTS OF WELL TESTING - WOLCOTT INDUSTRIAL AREA

CONTAMINANT CONCENTRATIONS (ug/L)

LOCATION NUMBER DATE SAMPLED SAMPLING AGENCY *	28 6/9/81 CHD	28 10/23/85 CHD	29 10/23/85 CHD	30 3/81 DHS	30 6/2/81 CHD	30 6/2/81 CHD	30 9/84 CHD	30 10/23/85 CHD	31 9/84 CHD	31 9/84 CHD	31 10/25/85 CHD
COMPOUND (ACTION LEVEL IN ug/L)											
Benzene (1)	40	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene (680)	< 1							1.0			< 1
Toluene (1,000)								1.3			2.2
Xylenes (440)								2.4			< 1
Methylene Chloride (25)			2.3					< 1			3.4
1,1 Dichloroethane (10 to 50)			< 1					< 1			< 1
1,2 Dichloroethane (2)		1.1						1.1			5.8
Chloroform (100)		< 1						< 1			< 1
1,2 Dichloroethane (1)		< 1					3.3	2.3			< 1
1,1,1 Trichloroethane (300)		1.3		4.6	0.7	4.1	< 1	< 1			1.4
Carbon Tetrachloride (3)		1.0	1.8	7.0	< 1	14	< 1	< 1			< 1
Trichloroethylene (25)		320.8	31.6	73	6.2	33	2.8	3.7	75.7 85.6	91.7 17.5	158.8
1,1,2,2 Tetrachloroethane (NA)		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene (20)		9.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Heptane (300 to 400)				< 1	< 1	< 1			< 1	< 1	

* CHD - Chesapeake Health District

DHS - Dept. of Health Services

WCU - Water Compliance Unit

RESULTS OF WELL TESTING - HOLCOTT INDUSTRIAL AREA

CONTAMINANT CONCENTRATIONS (ug/L)

LOCATION NUMBER DATE SAMPLED SAMPLING AGENCY	43	44 9/25/85 CHD	45 9/25/85 CHD	46 9/25/85 CHD	47 10/25/85 CHD	48 9/25/85 CHD	49 9/25/85 CHD	50 10/25/85 CHD	51 10/25/85 CHD	52 10/25/85 CHD	53 10/25/85 CHD
COMPOUND (ACTION LEVEL IN ug/L)											
Benzene (1)	Drugs	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene (680)	Water										
Toluene (1,000)	from										
Xylenes (440)	Brook										
Methylene Chloride (25)											
1,1 Dichloroethane (10 to 50)											
1,2 Dichloroethane (2)											
Chloroform (100)											
1,2 Dichloroethane (1)											
1,1,1 Trichloroethane (300)											
Carbon Tetrachloride (3)											
Trichloroethylene (25)											1.3
1,1,2,2 Tetrachloroethane (NA)											< 1
Tetrachloroethylene (20)						6.9	2.3				< 1
Pentane (300 to 400)											

* CHD - Connecticut Health District

CHD - Dept. of Health Services

CHD - Connecticut Health District

RESULTS OF WELL TESTING - WOLCOTT INDUSTRIAL AREA

CONTAMINANT CONCENTRATIONS (ug/L)

LOCATION NUMBER DATE SAMPLED SAMPLING AGENCY *	54 10/25/85 CHD	55 9/25/85 CHD
COMPOUND (ACTION LEVEL IN ug/L)		
Benzene (1)	< 1	< 1
Ethylbenzene (580)		
Toluene (1,000)		
Xylenes (440)		
Methylene Chloride (25)		
1,1 Dichloroethane (10 to 50)		
1,2 Dichloroethane (2)		
Chloroform (100)		
1,2 Dichloroethane (1)		
1,1,1 Trichloroethane (300)		
Carbon Tetrachloride (3)		
Trichloroethylene (25)	1.1	
1,1,2,2 Tetrachloroethane (NA)	< 1	
Tetrachloroethylene (20)	< 1	
Pentane (300 to 400)		

*CHD - Chesprocott Health District

DHS - Dept. of Health Services

DEP - Water Compliance Unit

APPENDIX D

**INDUSTRIAL & COMMERCIAL PROPERTIES
CONNECTED TO THE WATERBURY MUNICIPAL WATER DEPARTMENT**

WOLCOTT WATER LINE CUSTOMERS

- 1) Line Manufacturing 1" service, well in use for cooling air compression
7 Town Line Road, Wolcott Ct. Connected 1988
- 2) Harmon Brothers 3/4" service, well not abandoned, well is to be used
for air conditioner but is not in use at this time.
9 Town Line Road, Wolcott Ct. Connected 1988
- 3) KIP Transformers 1" service, well was abandoned when service connection
was completed.
13 Town Line Road, Wolcott Ct. Connected 1988
- 4) P.A.R. Precision 3/4" service, well was abandoned when service connection
was completed.
15 Town Line Road, Wolcott Ct. Connected 1988
- 5) Town Line Commons 1½" service and 8" Fire Service. This was a new
building in 1989 and consists of 2 buildings each with 8 commercial units
with the first building being complete at this time. The second building
not completed and without a water connection to the second building. No
well on property to our knowledge.
14-16 Town Line Road, Wolcott Ct. Connected 1989
- 6) Quality Used Cars 3/4" service, well was not abandoned. The well will
be used for air conditioner in the future, well is not in use at this
time.
34 Town Line Road, Wolcott Ct. Connected 1988
- 7) Truck World (formerly Chem Clean) 3/4" service, Well was abandoned when
service connection was completed.
36 Town Line Road, Wolcott Ct. Connected 1988
- 8) Thomas Gianni & Sons Inc. (formerly Waterbury Heat Treating) 3/4" service,
well was not abandoned, future use for washing trucks, well is not
in use at this time.
1 Nutmeg Valley Road (formerly 76 Nutmeg Valley Road) Wolcott, Ct.
Connected April 1990.
- 9) National Die 6" Fire Service only. Well in use for domestic use at this
time, no known problem with well.
64 Wolcott Road, Wolcott Ct. Connected April 1989
- 10) Mailly Manufacturing 3/4" service, well was abandoned when service
connection was completed.
Wakelee Road, Wolcott Ct. Connected 1988
- 11) Infodex 1½" service, well not abandoned, well use is for monitoring
purposes.
10 Venus Drive, Wolcott Ct. Connected 1988

page 2

- 12) Electro Power 3/4" service, well was disconnected, this Department has to follow up on status of well as to whether or not it will be used or abandoned.
Venus Drive Lot #10 Wolcott Ct. Connected August 1992
- 13) RayPax 3/4" service, well was disconnected, this Department has to follow up on status of well as to whether or not it will be used or abandoned.
Venus Drive Lot #9, Wolcott Ct. Connected August 1992

APPENDIX E
ANALYTICAL RESULTS FROM
TRCC SAMPLING
October 7, 1992

CLP VOLATILE ORGANIC ANALYSIS
CASE NO. 18977 SDG NO. SAO387
ANALYTICAL RESULTS

Sample Location	PF Industries	PF Industries	PF Industries					
Sample Number	GW-27-01	GW-27-02	TB-27-11					
Traffic Report Number	SAO387	SAO388	SAO389					
Remarks			Trip Blank					
Sampling Date	10/7/92	10/7/92	10/7/92					
Analysis Date	10/12/92	10/12/92	10/12/92					
VOLATILE ORGANIC COMPOUND	ug/L	ug/L	ug/L					
Dichlorodifluoromethane								
Chloromethane								
Bromomethane								
Vinyl Chloride								
Chloroethane								
Methylene Chloride			0.5 J					
Acetone								
Carbon Disulfide								
1,1-Dichloroethene								
2,2-Dichloropropane								
1,1-Dichloroethane								
trans-1,2-Dichloroethene								
cis-1,2-Dichloroethene								
Bromochloromethane								
Chloroform			0.7 J					
1,2-Dichloroethane								
2-Butanone								
1,1,1-Trichloroethane								
Carbon Tetrachloride								
1,1-Dichloropropene								
Bromodichloromethane								
1,2-Dichloropropane								
cis-1,3-Dichloropropene								
Trichloroethene								
Dibromochloromethane								
1,2-Dibromoethane								
1,1,2-Trichloroethane								
Benzene								
Dibromomethane								
trans-1,3-Dichloropropene								
1,3-Dichloropropane								
Bromoform								
4-Methyl-2-pentanone								

A blank space indicates the compound was not detected.

J Quantitation is approximate due to limitations identified during the quality control review.

TABLE 1

CLP VOLATILE ORGANIC ANALYSIS
CASE NO. 18877 SDG NO. SAO387
ANALYTICAL RESULTS

Sample Location	PF Industries	PF Industries	PF Industries					
Sample Number	GW-27-01	GW-27-02	TB-27-11					
Traffic Report Number	SAO387	SAO388	SAO389					
Remarks			Trip Blank					
Sampling Date	10/7/92	10/7/92	10/7/92					
Analysis Date	10/12/92	10/12/92	10/12/92					
VOLATILE ORGANIC COMPOUND	ug/L	ug/L	ug/L					
2-Hexanone								
Tetrachloroethene								
1,1,2,2-Tetrachloroethane								
Toluene			0.3 J					
Chlorobenzene								
1,1,1,2-Tetrachloroethane								
Ethylbenzene								
Styrene								
Xylene (Total)								
Isopropylbenzene								
Bromobenzene								
1,2,3-Trichloropropane								
n-Propylbenzene								
2-Chlorotoluene								
4-Chlorotoluene								
1,3,5-Trimethylbenzene								
tert-Butylbenzene								
1,2,4-Trimethylbenzene								
sec-Butylbenzene								
1,3-Dichlorobenzene								
1,2-Dichlorobenzene								
p-Isopropyltoluene								
n-Butylbenzene								
1,2-Dibromo-3-Chloropropane								
1,4-Dichlorobenzene								
1,2,4-Trichlorobenzene								
Naphthalene								
1,2,3-Trichlorobenzene								
Hexachlorobutadiene								
Trichlorofluoromethane								

A blank space indicates the compound was not detected.

J Quantitation is approximate due to limitations identified during the quality control review.

R Value is rejected.

LE 2
CLP VOLATILE ORGANIC ANALYSIS
CASE NO. 18877 SDG NO. SAO387
SAMPLE QUANTITATION LIMITS

Sample Location	PF Industries	PF Industries	PF Industries					
Sample Number	GW-27-01	GW-27-02	TB-27-11					
Traffic Report Number	SAO387	SAO388	SAO389					
Remarks			Trip Blank					
VOLATILE ORGANIC COMPOUND	ug/L	ug/L	ug/L					
Dichlorodifluoromethane	1.0	1.0	1.0					
Chloromethane	1.0	1.0	1.0					
Bromomethane	1.0	1.0	1.0					
Vinyl Chloride	1.0	1.0	1.0					
Chloroethane	1.0	1.0	1.0					
Methylene Chloride	1.0	1.0	1.0					
Acetone	5.0	5.0	5.0					
Carbon Disulfide	1.0	1.0	1.0					
1,1-Dichloroethene	1.0	1.0	1.0					
2,2-Dichloropropane	1.0	1.0	1.0					
1,1-Dichloroethane	1.0	1.0	1.0					
trans-1,2-Dichloroethene	1.0	1.0	1.0					
cis-1,2-Dichloroethene	1.0	1.0	1.0					
Bromochloromethane	1.0	1.0	1.0					
Chloroform	1.0	1.0	1.0					
1,2-Dichloroethane	1.0	1.0	1.0					
2-Butanone	5.0	5.0	5.0					
1,1,1-Trichloroethane	1.0	1.0	1.0					
Carbon Tetrachloride	1.0	1.0	1.0					
1,1-Dichloropropene	1.0	1.0	1.0					
Bromodichloromethane	1.0	1.0	1.0					
1,2-Dichloropropane	1.0	1.0	1.0					
cis-1,3-Dichloropropene	1.0	1.0	1.0					
Trichloroethene	1.0	1.0	1.0					
Dibromochloromethane	1.0	1.0	1.0					
1,2-Dibromoethane	1.0	1.0	1.0					
1,1,2-Trichloroethane	1.0	1.0	1.0					
Eenzene	1.0	1.0	1.0					
Dibromomethane	1.0	1.0	1.0					
trans-1,3-Dichloropropene	1.0	1.0	1.0					
1,3-Dichloropropane	1.0	1.0	1.0					
Bromoform	1.0	1.0	1.0					
4-Methyl-2-pentanone	5.0	5.0	5.0					

UJ Quantitation limit is approximate due to limitations identified during the quality control review.

TABLE 2
VOLATILE ORGANIC ANALYSIS
CASE NO. 18877 SDG NO. SAO387
SAMPLE QUANTITATION LIMITS

Sample Location	PF Industries	PF Industries	PF Industries					
Sample Number	GW-27-01	GW-27-02	TB-27-11					
Traffic Report Number	SAO387	SAO388	SAO389					
Remarks			Trip Blank					
VOLATILE ORGANIC COMPOUND	ug/L	ug/L	ug/L					
2-Hexanone	5.0	5.0	5.0					
Tetrachloroethene	1.0	1.0	1.0					
1,1,2,2-Tetrachloroethane	1.0	1.0	1.0					
Toluene	1.0	1.0	1.0					
Chlorobenzene	1.0	1.0	1.0					
1,1,1,2-Tetrachloroethane	1.0	1.0	1.0					
Ethylbenzene	1.0	1.0	1.0					
Styrene	1.0	1.0	1.0					
Xylene (Total)	1.0	1.0	1.0					
Isopropylbenzene	1.0	1.0	1.0					
Bromobenzene	1.0	1.0	1.0					
1,2,3-Trichloropropane	1.0	1.0	1.0					
n-Propylbenzene	1.0	1.0	1.0					
2-Chlorotoluene	1.0	1.0	1.0					
4-Chlorotoluene	1.0	1.0	1.0					
1,3,5-Trimethylbenzene	1.0	1.0	1.0					
tert-Butylbenzene	1.0	1.0	1.0					
1,2,4-Trimethylbenzene	1.0	1.0	1.0					
sec-Butylbenzene	1.0	1.0	1.0					
1,3-Dichlorobenzene	1.0	1.0	1.0					
1,2-Dichlorobenzene	1.0	1.0	1.0					
p-Isopropyltoluene	1.0	1.0	1.0					
n-Butylbenzene	1.0	1.0	1.0					
1,2-Dibromo-3-Chloropropane	1.0	1.0	1.0					
1,4-Dichlorobenzene	1.0	1.0	1.0					
1,2,4-Trichlorobenzene	1.0	1.0	1.0					
Naphthalene	1.0	1.0	1.0					
1,2,3-Trichlorobenzene	1.0	1.0	1.0					
Hexachlorobutadiene	1.0	1.0	1.0					
Trichlorofluoromethane	1.0	1.0	1.0					

UJ Quantitation limit is approximate due to limitations identified during the quality control review.

CLP EXTRACTABLE ORGANIC ANALYSIS

CASE NO. 18856 SAS 6702HQ SDG NO. 3354

ANALYTICAL RESULTS

Sample Location	PF Industries	PF Industries						
Sample Number	GW-27-01	GW-27-02						
Traffic Report Number	SAO390	SAO391						
Remarks		Dup. of GW-27-01						
SEMI-VOLATILE COMPOUND	ug/L	ug/L						
3-Nitroaniline								
Acenaphthene								
2,4-Dinitrophenol								
4-Nitrophenol								
Dibenzofuran								
2,4-Dinitrotoluene								
Diethylphthalate								
4-Chlorophenyl-phenylether								
Fluorene								
4-Nitroaniline								
4,6-Dinitro-2-methylphenol								
N-Nitrosodiphenylamine								
4-Bromophenyl-phenylether								
Hexachlorobenzene								
Pentachlorophenol								
Phenanthrene								
Anthracene								
Di-n-butylphthalate								
Fluoranthene								
Pyrene								
Butylbenzylphthalate								
3,3'-Dichlorobenzidine								
Benzo(a)anthracene								
Chrysene								
bis(2-Ethylhexyl)phthalate								
Di-n-octyl phthalate								
Benzo(b)fluoranthene								
Benzo(k)fluoranthene								
Benzo(a)pyrene								
Indeno (1,2,3-cd)pyrene								
Dibenz(a,h)anthracene								
Benzo(g,h,i)perylene								

A blank space indicates the compound was not detected.

CLP EXTRACTABLE ORGANIC ANALYSIS

CASE NO. 18856 SAS 6702HQ SDG NO. 3354

SAMPLE QUANTITATION LIMITS

Sample Location	PF Industries	PF Industries						
Sample Number	GW-27-01	GW-27-02						
Traffic Report Number	SAQ390	SAQ391						
Remarks		Dup. of GW-27-01						
SEMI-VOLATILE COMPOUND	ug/L	ug/L						
Phenol	5	5						
bis (2-Chloroethyl) ether	5	5						
2-Chlorophenol	5	5						
2,2'-Oxybis(1-Chloropropane)	5 UJ	5 UJ						
2-Methylphenol	5	5						
4-Methylphenol	5	5						
N-Nitroso-di-n-propylamine	5	5						
Hexachloroethane	5	5						
Nitrobenzene	5	5						
Isophorone	5	5						
2-Nitrophenol	5	5						
2,4-Dimethylphenol	5	5						
bis (2-Chloroethoxy) methane	5	5						
2,4-Dichlorophenol	5	5						
1,2,4-Trichlorobenzene	5	5						
Naphthalene	5	5						
4-Chloroaniline	5	5						
Hexachlorobutadiene	5	5						
4-Chloro-3-methylphenol	5	5						
2-Methylnaphthalene	5	5						
Hexachlorocyclopentadiene	5 UJ	5 UJ						
2,4,6-Trichlorophenol	5	5						
2,4,5-Trichlorophenol	20	20						
2-Chloronaphthalene	5	5						
2-Nitroaniline	20	20						
Dimethylphthalate	5	5						
Acenaphthylene	5	5						
2,6-Dinitrotoluene	5	5						

UJ Quantitation limit is approximate due to limitations identified during the quality control review.

TABLE 4
CLP EXTRACTABLE ORGANIC ANALYSIS
CASE NO. 18856 SAS 6702HQ SDG NO. 3354
SAMPLE QUANTITATION LIMITS

Sample Location	PF Industries	PF Industries						
Sample Number	GW-27-01	GW-27-02						
Traffic Report Number	SAO390	SAO391						
Remarks		Dup. of GW-27-01						
Percent Solids								
SEMI-VOLATILE COMPOUND	ug/L	ug/L						
3-Nitroaniline	20	20						
Acenaphthene	5	5						
2,4-Dinitrophenol	20	20						
4-Nitrophenol	20	20						
Dibenzofuran	5	5						
2,4-Dinitrotoluene	5	5						
Diethylphthalate	5	5						
4-Chlorophenyl-phenylether	5	5						
Fluorene	5	5						
4-Nitroaniline	20	20						
4,6-Dinitro-2-methylphenol	20	20						
N-Nitrosodiphenylamine	5	5						
4-Bromophenyl-phenylether	5	5						
Hexachlorobenzene	5	5						
Pentachlorophenol	20	20						
Phenanthrene	5	5						
Anthracene	5	5						
Di-n-butylphthalate	5	5						
Fluoranthene	5	5						
Pyrene	5	5						
Butylbenzylphthalate	5	5						
3,3'-Dichlorobenzidine	5 UJ	5 UJ						
Benzo(a)anthracene	5	5						
Chrysene	5	5						
bis(2-Ethylhexyl)phthalate	5	5						
Di-n-octyl phthalate	5	5						
Benzo(b)fluoranthene	5	5						
Benzo(k)fluoranthene	5	5						
Benzo(a)pyrene	5	5						
Indeno (1,2,3-cd)pyrene	5	5						
Dibenz(a,h)anthracene	5	5						
Benzo(g,h,i)perylene	5	5						

UJ Quantitation limit is approximate due to limitations identified during the quality control review.

CLP EXTRACTABLE ORGANIC ANALYSIS
CASE NO. 18856 SAS 6702HQ SDG NO. 3354
ANALYTICAL RESULTS

Sample Location	PF Industries	PF Industries						
Sample Number	GW-27-01	GW-27-02						
Traffic Report Number	SAC390	SAC391						
Remarks		Dup. of GW-27-01						
Sampling Date	10/07/92	10/07/92						
Extraction Date	10/09/92	10/09/92						
Analysis Date	10/17/92	10/17/92						
PESTICIDE/PCB COMPOUND	ug/L	ug/L						
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC (Lindane)								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
alpha-Chlordane								
gamma-Chlordane								
Toxaphene								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								

A blank space indicates the compound was not detected.

J Quantitation is approximate due to limitations identified during the quality control review.

R Value is rejected.

CLP EXTRACTABLE ORGANIC ANALYSIS

CASE NO. 18856 SAS 6702HQ SDG NO. 3354

SAMPLE QUANTITATION LIMITS

Sample Location	PF Industries	PF Industries						
Sample Number	GW-27-01	GW-27-02						
Traffic Report Number	SAC390	SAC391						
Remarks		Dup. of GW-27-01						
PESTICIDE/PCB COMPOUND	ug/L	ug/L						
alpha-BHC	0.01	0.01						
beta-BHC	0.01	0.01						
delta-BHC	0.01	0.01						
gamma-BHC (Lindane)	0.01	0.01						
heptachlor	0.01	0.01						
Aldrin	0.01	0.01						
Heptachlor epoxide	0.01	0.01						
Endosulfan I	0.01	0.01						
Dieldrin	0.02	0.02						
1,4'-DDE	0.02	0.02						
Endrin	0.02	0.02						
Endosulfan II	0.02	0.02						
1,4'-DDD	0.02	0.02						
Endosulfan sulfate	0.02	0.02						
4,4'-DDT	0.02	0.02						
methoxychlor	0.10	0.10						
Endrin ketone	0.02	0.02						
Endrin aldehyde	0.02	0.02						
alpha-Chlordane	0.01	0.01						
gamma-Chlordane	0.01	0.01						
Toxaphene	1.0	1.0						
Aroclor-1016	0.20	0.20						
Aroclor-1221	0.40	0.40						
Aroclor-1232	0.20	0.20						
Aroclor-1242	0.20	0.20						
Aroclor-1248	0.20	0.20						
Aroclor-1254	0.20	0.20						
Aroclor-1260	0.20	0.20						

TABLE 1

CLP INORGANIC ANALYSIS
CASE NO. 18864 SDG NO. MABW01
ANALYTICAL RESULTS

Sample Location	PF Industries	PF Industries	PF Industries					
Sample Number	GW-27-01	GW-27-02	RB-27-09					
Traffic Report Number	MABW01	MABW02	MABW09					
Remarks			Rinsate Blank					
Sampling Date	10/7/92	10/7/92	10/7/92					
Inorganic Elements	CRDL (ug/L)	ug/L	ug/L	ug/L				
Aluminum	P 200			29.2				
Antimony	P 60							
Arsenic	F 10							
Barium	P 200	21.3	20.9	1.2				
Beryllium	P 5							
Cadmium	P 5							
Calcium	P 5000	35200	35000	76.1				
Chromium	P 10							
Cobalt	P 50							
Copper	P 25	96.3	89.6					
Iron	P 100							
Lead	F 3	3.6 J	2.6 J					
Magnesium	P 5000	3010	2990	22.5				
Manganese	P 15							
Mercury	V 0.2							
Nickel	P 40							
Potassium	P 5000	970	933					
Selenium	F 5							
Silver	P 10							
Sodium	P 5000	9200	9060	102				
Thallium	F 10							
Vanadium	P 50							
Zinc	P 20			5.8				
Cyanide	C 10							

Analytical Method

F Furnace
P ICP/Flame AA
V Cold Vapor
C Colorimetric

A blank space indicates the element was not detected.

J Quantitation is approximate due to limitations identified in the quality control review.
R Value is rejected.
NA Not Analyzed

Sample Detection Limits for the elements listed above are reported in Table 2.

CLP INORGANIC ANALYSIS
CASE NO. 18864 SDG NO. MABW01
SAMPLE DETECTION LIMITS

Sample Location	PF Industries	PF Industries	PF Industries					
Sample Number	GW-27-01	GW-27-02	RB-27-09					
Traffic Report Number	MABW01	MABW02	MABW09					
Remarks			Flintate Blank					
Sampling Date	10/7/92	10/7/92	10/7/92					
Percent Solids	0	0	0					
Inorganic Elements	IDL (ug/L)	ug/L	ug/L	ug/L				
Aluminum	P 14.7	24.00 UJ	34.10	14.70				
Antimony	P 14.8	23.90 UJ	14.80	14.80				
Arsenic	F 2.9	10.00 UJ	10.00 UJ	10.00				
Barium	P 0.7	0.70	0.70	0.70				
Beryllium	P 0.3	0.30	0.30	0.30				
Cadmium	P 1.5	1.50	1.50	1.50				
Calcium	P 13.7	13.70	13.70	13.70				
Chromium	P 2.6	2.60	2.60	2.60				
Cobalt	P 1.3	2.30 UJ	1.60 UJ	1.30				
Copper	P 1.9	1.90	1.90	1.90				
Iron	P 4.0	4.00	4.00	4.00				
Lead	F 2.0	2.00	2.00	2.00 UJ				
Magnesium	P 18.0	18.00	18.00	18.00				
Manganese	P 0.9	0.90	0.90	0.90				
Mercury	V 0.1	0.10	0.10	0.10				
Nickel	P 2.6	2.60	2.60	2.60				
Potassium	P 79.4	79.40	79.40	79.40				
Selenium	F 3.8	3.80 UJ	3.80 UJ	3.80				
Silver	P 3.6	3.60	3.60	3.60				
Sodium	P 32.7	32.70	32.70	32.70				
Thallium	F 1.3	1.30 UJ	1.30 UJ	1.30				
Vanadium	P 2.5	2.50	2.50	2.50				
Zinc	P 5.7	10.10 UJ	8.00 UJ	5.70				
Cyanide	C 10.0	10.00	10.00	10.00				

Analytical Method

F Furnace AA P ICP/Flame AA V Cold Vapor C Colorimetric

Sample's wet weight (gms) digested							
for Hg analysis							
for ICP analysis							
for furnace AA analysis							
for Cyanide analysis							

Volumes used preparing samples for analysis

for Hg analysis	100 mls
for ICP/AA analysis	200 mls
for Cyanide analysis	50 mls

UJ Value is undetected and the quantitation is approximate due to limitations identified in the quality control review.

R Value is rejected.

CLP VOLATILE ORGANIC ANALYSIS

CASE NO. 18864 SDG NO. ADT67

ANALYTICAL RESULTS

Sample Location	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries
Sample Number	SS-27-03	SS-27-04	SS-27-05	SS-27-06	SS-27-07	SS-27-08	RB-27-09	TB-27-10
Traffic Report Number	ADT67	ADT68RE	ADT69	ADT70	ADT71	ADT72	ADT73	ADT74
Remarks			Dup. of SS-27-04			Reference Sample	Rinsate Blank	Trip Blank
Sampling Date	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92
Analysis Date	10/16/92	10/16/92	10/16/92	10/16/92	10/16/92	10/16/92	10/16/92	10/16/92
VOLATILE ORGANIC COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L
Chloromethane								2 J
Bromomethane								
Vinyl Chloride								
Chloroethane								
Methylene Chloride								
Acetone							6 J	1 J
Carbon Disulfide								
1,1-Dichloroethene								
1,1-Dichloroethane								
1,2-Dichloroethene (Total)								
Chloroform								
1,2-Dichloroethane								
2-Butanone							3 J	3 J
1,1,1-Trichloroethane								
Carbon Tetrachloride								
Bromodichloromethane								
1,2-Dichloropropane								
cis-1,3-Dichloropropene								
Trichloroethene								
Dibromochloromethane								
1,1,2-Trichloroethane								
Benzene							2 J	3 J
trans-1,3-Dichloropropene								
Bromoform								
4-Methyl-2-pentanone								
2-Hexanone								
Tetrachloroethene	4 J							
1,1,2,2-Tetrachloroethane								
Toluene	2 J	2 J	2 J	2 J				
Chlorobenzene								
Ethylbenzene								
Styrene								
Xylene (Total)				3 J				

A blank space indicates the compound was not detected.

J Quantitation is approximate due to limitations identified during the quality control review.

FILE 2
CLP VOLATILE ORGANIC ANALYSIS
CASE NO. 18864 SDG NO. ADT67
SAMPLE QUANTITATION LIMITS

Sample Location	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries
Sample Number	SS-27-03	SS-27-04	SS-27-05	SS-27-06	SS-27-07	SS-27-08	RB-27-09	TB-27-10
Traffic Report Number	ADT67	ADT68RE	ADT69	ADT70	ADT71	ADT72	ADT73	ADT74
Remarks			Dup. of SS-27-04			Reference Sample	Rinsate Blank	Trip Blank
Percent Solids	92	94	95	96	94	88	0	0
VOLATILE ORGANIC COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L
Chloromethane	11	11	11	10	11	11	10	10
Bromomethane	11	11	11	10	11	11	10	10
Vinyl Chloride	11	11	11	10	11	11	10	10
Chloroethane	11	11	11	10	11	11	10	10
Methylene Chloride	11	11	11	10	11	11	10	10
Acetone	11	11	11	10	11	11	10	10
Carbon Disulfide	11	11	11	10	11	11	10	10
1,1-Dichloroethene	11	11	11	10	11	11	10	10
1,1-Dichloroethane	11	11	11	10	11	11	10	10
1,2-Dichloroethene (Total)	11	11	11	10	11	11	10	10
Chloroform	11	11	11	10	11	11	10	10
1,2-Dichloroethane	11	11	11	10	11	11	10	10
2-Butanone	11	11	11	10	11	11	10	10
1,1,1-Trichloroethane	11 UJ	11	11	10	11	11	10	10
Carbon Tetrachloride	11 UJ	11	11	10	11	11	10	10
Bromodichloromethane	11 UJ	11	11	10	11	11	10	10
1,2-Dichloropropane	11 UJ	11	11	10	11	11	10	10
cis-1,3-Dichloropropene	11 UJ	11	11	10	11	11	10	10
Trichloroethene	11 UJ	11	11	10	11	11	10	10
Dibromochloromethane	11 UJ	11	11	10	11	11	10	10
1,1,2-Trichloroethane	11 UJ	11	11	10	11	11	10	10
Benzene	11 UJ	11	11	10	11	11	10	10
trans-1,3-Dichloropropene	11 UJ	11	11	10	11	11	10	10
Bromoform	11 UJ	11	11	10	11	11	10	10
4-Methyl-2-pentanone	11 R	11 UJ	11 UJ	10 UJ	11	11	10	10
2-Hexanone	11 R	11 UJ	11 UJ	10 UJ	11	11	10	10
Tetrachloroethene	11	11 UJ	11 UJ	10 UJ	11	11	10	10
1,1,2,2-Tetrachloroethane	11 R	11 UJ	11 UJ	10 UJ	11	11	10	10
Toluene	11	11	11	10	11	11	10	10
Chlorobenzene	11 R	11 UJ	11 UJ	10 UJ	11	11	10	10
Ethylbenzene	11 R	11 UJ	11 UJ	10 UJ	11	11	10	10
Styrene	11 R	11 UJ	11 UJ	10 UJ	11	11	10	10
Xylene (Total)	11 R	11 UJ	11 UJ	10	11	11	10	10

UJ Quantitation limit is approximate due to limitations identified during the quality control review.

R Value is rejected.

CLP EXTRACTABLE ORGANIC ANALYSIS

CASE NO. 18864 SDG NO. ADT67

ANALYTICAL RESULTS

Sample Location	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	
Sample Number	SS-27-03	SS-27-04	SS-27-05	SS-27-06	SS-27-07	SS-27-08	RB-27-09	
Traffic Report Number	ADT67RE	ADT68	ADT69	ADT70	ADT71	ADT72	ADT73	
Remarks			Dup. of SS-27-04			Reference Sample	Rinsate Blank	
Sampling Date	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92	
Extraction Date	10/16/92	10/16/92	10/16/92	10/16/92	10/15/92	10/15/92	10/10/92	
Analysis Date	11/02/92	10/30/92	10/30/92	10/30/92	11/02/92	11/02/92	10/30/92	
SEMI-VOLATILE COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	
Phenol		1800 J	1400 J	2600 J	950 J			
bis (2-Chloroethyl) ether								
2-Chlorophenol								
1,3-Dichlorobenzene								
1,4-Dichlorobenzene								
1,2-Dichlorobenzene								
2,2'-Oxybis(1-Chloropropane)								
2-Methylphenol								
4-Methylphenol					91 J			
N-Nitroso-di-n-propylamine								
Hexachloroethane								
Nitrobenzene								
Isophorone								
2-Nitrophenol								
2,4-Dimethylphenol					43 J			
bis (2-Chloroethoxy) methane								
2,4-Dichlorophenol								
1,2,4-Trichlorobenzene								
Naphthalene								
4-Chloroaniline								
Hexachlorobutadiene								
4-Chloro-3-methylphenol								
2-Methylnaphthalene								
Hexachlorocyclopentadiene								
2,4,6-Trichlorophenol								
2,4,5-Trichlorophenol								
2-Chloronaphthalene								
2-Nitroaniline								
Dimethylphthalate								
Acenaphthylene								
2,6-Dinitrotoluene								

CLP EXTRACTABLE ORGANIC ANALYSIS

CASE NO. 18864 SDG NO. ADT67

ANALYTICAL RESULTS

Sample Location	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	
Sample Number	SS-27-03	SS-27-04	SS-27-05	SS-27-06	SS-27-07	SS-27-08	RB-27-09	
Traffic Report Number	ADT67RE	ADT68	ADT69	ADT70	ADT71	ADT72	ADT73	
Remarks			Dup. of SS-27-04			Reference Sample	Rinsate Blank	
SEMI-VOLATILE COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	
3-Nitroaniline								
Acenaphthene								
2,4-Dinitrophenol								
4-Nitrophenol								
Dibenzofuran								
2,4-Dinitrotoluene								
Diethylphthalate								
4-Chlorophenyl-phenylether								
Fluorene								
4-Nitroaniline								
4,6-Dinitro-2-methylphenol								
N-Nitrosodiphenylamine								
4-Bromophenyl-phenylether								
Hexachlorobenzene								
Pentachlorophenol								
Phenanthrene					170 J			
Anthracene								
Carbazole								
Di-n-butylphthalate								
Fluoranthene					160 J			
Pyrene					310 J	39 J		
Butylbenzylphthalate								
3,3'-Dichlorobenzidine								
Benzo(a)anthracene					150 J			
Chrysene					160 J			
bis(2-Ethylhexyl)phthalate	3900 J	8800 J	5600 J	4800 J	360 J			
Di-n-octyl phthalate								
Benzo(b)fluoranthene					140 J			
Benzo(k)fluoranthene					78 J			
Benzo(a)pyrene					67 J			
Indeno (1,2,3-cd)pyrene					86 J			
Dibenz(a,h)anthracene								
Benzo(g,h,i)perylene								

A blank space indicates the compound was not detected.

J Quantitation is approximate due to limitations identified during the quality control review.

E 4
CLP EXTRACTABLE ORGANIC ANALYSIS
CASE NO. 18864 SDG NO. ADT67
SAMPLE QUANTITATION LIMITS

Sample Location	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	
Sample Number	SS-27-03	SS-27-04	SS-27-05	SS-27-06	SS-27-07	SS-27-08	RB-27-09	
Traffic Report Number	ADT67RE	ADT68	ADT69	ADT70	ADT71	ADT72	ADT73	
Remarks			Dup. of SS-27-04			Reference Sample	Rinsate Blank	
Percent Solids	MED 92	MED 94	MED 95	MED 96	94	88	0	
SEMI-VOLATILE								
COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	
Phenol	11000 UJ	11000	11000	10000	350	370 UJ	11	
bis (2-Chloroethyl) ether	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2-Chlorophenol	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
1,3-Dichlorobenzene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
1,4-Dichlorobenzene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
1,2-Dichlorobenzene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2,2'-Oxybis(1-Chloropropane)	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2-Methylphenol	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
4-Methylphenol	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350	370 UJ	11	
N-Nitroso-di-n-propylamine	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Hexachloroethane	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Nitrobenzene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Isophorone	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2-Nitrophenol	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2,4-Dimethylphenol	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350	370 UJ	11	
bis (2-Chloroethoxy) methane	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2,4-Dichlorophenol	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
1,2,4-Trichlorobenzene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Naphthalene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
4-Chloroaniline	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11 UJ	
Hexachlorobutadiene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
4-Chloro-3-methylphenol	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2-Methylnaphthalene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Hexachlorocyclopentadiene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2,4,6-Trichlorophenol	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2,4,5-Trichlorophenol	27000 UJ	27000 UJ	26000 UJ	26000 UJ	850 UJ	910 UJ	27	
2-Chloronaphthalene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2-Nitroaniline	27000 UJ	27000 UJ	26000 UJ	26000 UJ	850 UJ	910 UJ	27	
Dimethylphthalate	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Acenaphthylene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2,6-Dinitrotoluene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	

UJ Quantitation limit is approximate due to limitations identified during the quality control review.

BLE 4
CLP EXTRACTABLE ORGANIC ANALYSIS
CASE NO. 18864 SDG NO. ADT67
SAMPLE QUANTITATION LIMITS

Sample Location	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	
Sample Number	SS-27-03	SS-27-04	SS-27-05	SS-27-06	SS-27-07	SS-27-08	RB-27-09	
Traffic Report Number	ADT67RE	ADT68	ADT69	ADT70	ADT71	ADT72	ADT73	
Remarks			Dup. of SS-27-04			Reference Sample	Rinsate Blank	
Percent Solids	MED 92	MED 94	MED 95	MED 96	94	88	0	
SEMI-VOLATILE COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	
3-Nitroaniline	27000 R	27000 R	26000 R	26000 R	850 R	910 R	27 R	
Acenaphthene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2,4-Dinitrophenol	27000 UJ	27000 UJ	26000 UJ	26000 UJ	850 UJ	910 UJ	27	
4-Nitrophenol	27000 UJ	27000 UJ	26000 UJ	26000 UJ	850 UJ	910 UJ	27	
Dibenzofuran	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
2,4-Dinitrotoluene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Diethylphthalate	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
4-Chlorophenyl-phenylether	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Fluorene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
4-Nitroaniline	27000 UJ	27000 UJ	26000 UJ	26000 UJ	850 UJ	910 UJ	27	
4,6-Dinitro-2-methylphenol	27000 UJ	27000 UJ	26000 UJ	26000 UJ	850 UJ	910 UJ	27	
N-Nitrosodiphenylamine	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
4-Bromophenyl-phenylether	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Hexachlorobenzene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Pentachlorophenol	27000 UJ	27000 UJ	26000 UJ	26000 UJ	850 UJ	910 UJ	27	
Phenanthrene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350	370 UJ	11	
Anthracene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Carbazole	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Di-n-butylphthalate	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Fluoranthene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350	370 UJ	11	
Pyrene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350	370	11	
Butylbenzylphthalate	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
3,3'-Dichlorobenzidine	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Benzo(a)anthracene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350	370 UJ	11	
Chrysene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350	370 UJ	11	
bis(2-Ethylhexyl)phthalate	11000	11000	11000	10000	350	370 UJ	11	
Di-n-octyl phthalate	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Benzo(b)fluoranthene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350	370 UJ	11	
Benzo(k)fluoranthene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350	370 UJ	11	
Benzo(a)pyrene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350	370 UJ	11	
Indeno (1,2,3-cd)pyrene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350	370 UJ	11	
Dibenz(a,h)anthracene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	
Benzo(g,h,i)perylene	11000 UJ	11000 UJ	11000 UJ	10000 UJ	350 UJ	370 UJ	11	

UJ Quantitation limit is approximate due to limitations identified during the quality control review.

R Value is rejected.

CLP EXTRACTABLE ORGANIC ANALYSIS

CASE NO. 18864 SDG NO. ADT67

ANALYTICAL RESULTS

Sample Location	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	
Sample Number	SS-27-03	SS-27-04	SS-27-05	SS-27-06	SS-27-07	SS-27-08	RB-27-09	
Traffic Report Number	ADT67	ADT68	ADT69	ADT70	ADT71	ADT72	ADT73	
Remarks			Dup. of SS-27-04			Reference Sample	Rinsate Blank	
Sampling Date	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92	
Extraction Date	10/15/92	10/15/92	10/15/92	10/15/92	10/15/92	10/15/92	10/10/92	
Analysis Date	11/06/92	11/05/92	11/05/92	11/06/92	11/06/92	11/05/92	11/05/92	
PESTICIDE/PCB COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	
alpha-BHC			0.57 J					
beta-BHC								
delta-BHC								
gamma-BHC (Lindane)			0.21 J		0.32 J			
Heptachlor				5 J				
Aldrin								
Heptachlor epoxide		1.9 J		9.2 J	3.7 J			
Endosulfan I					0.27 J			
Dieldrin	7.0 J					0.54 J		
4,4'-DDE	11 J	3.0 J	1.2 J	11 J		2.5 J		
Endrin		4.0 J	2.8 J	5 J	1.5 J			
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate	52 J	7.5 J	8.3 J					
4,4'-DDT				29 J	6.6 J	8.9 J		
Methoxychlor	55 J					2.9 J		
Endrin ketone								
Endrin aldehyde				10 J		1.2 J		
alpha-Chlordane	21 J					0.62 J		
gamma-Chlordane	31 J				0.82 J	0.43 J		
Toxaphene								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								

A blank space indicates the compound was not detected.

J Quantitation is approximate due to limitations identified during the quality control review.

CLP EXTRACTABLE ORGANIC ANALYSIS

CASE NO. 18864 SDG NO. ADT67

SAMPLE QUANTITATION LIMITS

Sample Location	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	
Sample Number	SS-27-03	SS-27-04	SS-27-05	SS-27-06	SS-27-07	SS-27-08	RB-27-09	
Traffic Report Number	ADT67	ADT68	ADT69	ADT70	ADT71	ADT72	ADT73	
Remarks	2X Dil.		Dup. of SS-27-04	4X Dil.	2X Dil.	Reference Sample	Rinsate Blank	
Percent Solids	92	94	95	96	94	88	0	
PESTICIDE/PCB COMPOUND	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	
alpha-BHC	3.7 UJ	1.8 UJ	1.8	7 UJ	3.6 UJ	1.9 UJ	0.056	
beta-BHC	3.7 UJ	1.8 UJ	1.8 UJ	7 UJ	3.6 UJ	1.9 UJ	0.056	
delta-BHC	3.7 UJ	1.8 UJ	1.8 UJ	7 UJ	3.6 UJ	1.9 UJ	0.056	
gamma-BHC (Lindane)	3.7 R	1.8 UJ	1.8	7 UJ	3.6	1.9 UJ	0.056	
Heptachlor	3.7 R	1.8 UJ	1.8 UJ	7	3.6 UJ	1.9 UJ	0.056	
Aldrin	3.7 R	1.8 UJ	1.8 UJ	7 UJ	3.6 UJ	1.9 UJ	0.056	
Heptachlor epoxide	3.7 UJ	1.8	1.8 UJ	7	3.6	1.9 UJ	0.056	
Endosulfan I	3.7 UJ	1.8 UJ	1.8 UJ	7 UJ	3.6	1.9 UJ	0.056	
Dieldrin	7.2	3.5 UJ	3.5 UJ	14 UJ	7 UJ	3.7	0.11	
4,4'-DDE	7.2	3.5	3.5	14	7 UJ	3.7	0.11	
Endrin	7.2 R	3.5	3.5	14	7	3.7 UJ	0.11	
Endosulfan II	7.2 UJ	3.5 UJ	3.5 UJ	14 UJ	7 UJ	3.7 UJ	0.11	
4,4'-DDD	7.2 UJ	3.5 UJ	3.5 UJ	14 UJ	7 UJ	3.7 UJ	0.11	
Endosulfan sulfate	7.2	3.5	3.5	14 UJ	7 UJ	3.7 UJ	0.11	
4,4'-DDT	7.2 R	3.5 UJ	3.5 UJ	14	7	3.7	0.11	
Methoxychlor	37	18 UJ	18 UJ	70 UJ	36 UJ	19	0.56	
Endrin ketone	7.2 UJ	3.5 UJ	3.5 UJ	14 UJ	7 UJ	3.7 UJ	0.11	
Endrin aldehyde	7.2 UJ	3.5 UJ	3.5 UJ	14	7 UJ	3.7	0.11	
alpha-Chlordane	3.7	1.8 UJ	1.8 UJ	7 UJ	3.6 UJ	1.9	0.056	
gamma-Chlordane	3.7	1.8 UJ	1.8 UJ	7 UJ	3.6	1.9	0.056	
Toxaphene	370 UJ	180 UJ	180 UJ	700 UJ	360 UJ	190 UJ	5.6	
Aroclor-1016	72 UJ	35 UJ	35 UJ	140 UJ	70 UJ	37 UJ	1.1	
Aroclor-1221	150 UJ	71 UJ	71 UJ	280 UJ	140 UJ	76 UJ	2.3	
Aroclor-1232	72 UJ	35 UJ	35 UJ	140 UJ	70 UJ	37 UJ	1.1	
Aroclor-1242	72 UJ	35 UJ	35 UJ	140 UJ	70 UJ	37 UJ	1.1	
Aroclor-1248	72 UJ	35 UJ	35 UJ	140 UJ	70 UJ	37 UJ	1.1	
Aroclor-1254	72 UJ	35 UJ	35 UJ	140 UJ	70 UJ	37 UJ	1.1	
Aroclor-1260	72 UJ	35 UJ	35 UJ	140 UJ	70 UJ	37 UJ	1.1	

UJ Quantitation limit is approximate due to limitations identified during the quality control review.

R Value is rejected.

CLP INORGANIC ANALYSIS
CASE NO. 18864 SDG NO. MABW03
ANALYTICAL RESULTS

Sample Location		PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries		
Sample Number		SS-27-03	SS-27-04	SS-27-05	SS-27-06	SB-27-07	SS-27-08		
Traffic Report Number		MABW03	MABW04	MABW05	MABW06	MABW07	MABW08		
Remarks				Duplicate of SS-27-04			Reference Sample		
Sampling Date		10/07/92	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92		
	CRDL								
Inorganic Elements	(ug/L)	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg		
Aluminum	P 200	8170	5970	6380	10400	6610	12300		
Antimony	P 60	38.9							
Arsenic	F 10	4.5 J	5.3 J	26.1 J	5.3 J				
Barium	P 200	525	25.1	26.9	30.2	27.9	89.7		
Beryllium	P 5	0.56	0.12	0.21			0.63		
Cadmium	P 5	63.3			3.4				
Calcium	P 5000	975	1820	1860	1400	650	642		
Chromium	P 10	51.1 J	158 J	109 J	46.2 J	13.8 J	11.4 J		
Cobalt	P 50	15.1	5.9	4.9	5.9	5.3	8.5		
Copper	P 25	15000 J	30300 J	16300 J	34400 J	6250 J	238 J		
Iron	P 100	29800	23100	18700	18200	11300	17500		
Lead	F 3	4670	862	691	1380	247	14.9		
Magnesium	P 5000	1520	2010	2110	1780	1880	3810		
Manganese	P 15	510	275	238	203	197	328		
Mercury	V 0.2	0.37	0.35	0.18	0.18	0.06			
Nickel	P 40	161 J	47.2 J	40.8 J	81.6 J	20.0 J	11.9 J		
Potassium	P 5000	865	948	940	828	1080	3370		
Selenium	F 5	4.8 J							
Silver	P 10	4.0 J	4.3 J	2.2 J	11.7	0.96 J	0.71 J		
Sodium	P 5000								
Thallium	F 10								
Vanadium	P 50	15.8	15.0	15.1	13.7	15.5	31.1		
Zinc	P 20	5220 J	14900 J	7900 J	17700 J	3360 J	55.3 J		
Cyanide	C 10								

Analytical Method

F Furnace
P ICP/Flame AA
V Cold Vapor
C Colorimetric

A blank space indicates the element was not detected.

J Quantitation is approximate due to limitations identified in the quality control review.

Sample Detection Limits for the elements listed above are reported in Table 2.

CLP INORGANIC ANALYSIS
CASE NO. 18864 SDG NO. MABW03
SAMPLE DETECTION LIMITS

Sample Location	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries	PF Industries		
Sample Number	SS-27-03	SS-27-04	SS-27-05	SS-27-06	SB-27-07	SS-27-08		
Traffic Report Number	MABW03	MABW04	MABW05	MABW06	MABW07	MABW08		
Remarks			Duplicate of SS-27-04			Reference Sample		
Sampling Date	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92	10/07/92		
Percent Solids	93.1	94.5	94.3	96.0	93.5	87.7		
Inorganic Elements	IDL (ug/L)	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Aluminum	P 21.4	4.51	4.48	4.41	4.33	4.53	4.83	
Antimony	P 16.9	3.56	3.54	3.48	3.42	3.58	3.82	
Arsenic	F 2.2	0.46	0.44	0.44	0.44	2.50	1.70	
Barium	P 2.9	0.61	0.61	0.60	0.59	0.61	0.65	
Beryllium	P 0.4	0.08	0.08	0.08	0.08	0.08	0.09	
Cadmium	P 1.0	0.21	1.90	2.00	0.20	0.68	0.23	
Calcium	P 25.9	5.45	5.43	5.33	5.24	5.49	5.85	
Chromium	P 4.5	0.95	0.94	0.93	0.91	0.95	1.02	
Cobalt	P 2.7	0.57	0.57	0.56	0.55	0.57	0.61	
Copper	P 3.5	0.74	0.73	0.72	0.71	0.74	0.79	
Iron	P 11.6	2.44	2.43	2.39	2.35	2.46	2.62	
Lead	P 13.0	2.74	2.72	2.68	2.63	2.75	2.94	
Magnesium	P 40.8	8.59	8.55	8.40	8.25	8.64	9.21	
Manganese	P 4.7	0.99	0.98	0.97	0.95	1.00	1.06	
Mercury	V 0.1	0.05	0.05	0.05	0.05	0.05	0.05	
Nickel	P 5.4	1.14	1.13	1.11	1.09	1.14	1.22	
Potassium	P 241.8	50.93	50.67	49.79	48.91	51.21	54.60	
Selenium	F 3.6	0.76	0.73 UJ	0.73 UJ	0.73 UJ	0.76 UJ	0.82 UJ	
Silver	P 2.5	0.53	0.52	0.51	0.51	0.53	0.56	
Sodium	P 46.4	53.30	58.50	60.10	60.70	44.90	74.90	
Thallium	F 3.8	0.80 UJ	0.77 UJ	0.77 UJ	0.77 UJ	0.80 UJ	0.87 UJ	
Vanadium	P 2.8	0.59	0.59	0.58	0.57	0.59	0.63	
Zinc	P 2.2	0.46	0.46	0.45	0.44	0.47	0.50	
Cyanide	C 10.0	0.53	0.49	0.49	0.52	0.52	0.57	

Analytical Method

F Furnace AA P ICP/Flame AA V Cold Vapor C Colorimetric

Sample's wet weight (gms) digested							
for Hg analysis	0.22	0.20	0.22	0.21	0.21	0.21	
for ICP analysis	1.02	1.01	1.03	1.03	1.01	1.01	
for furnace AA analysis	1.02	1.05	1.05	1.03	1.01	1.00	
for Cyanide analysis	1.01	1.09	1.09	1.00	1.02	1.00	

Volumes used preparing samples for analysis	
for Hg analysis	100 ml
for ICP/AA analysis	200 ml
for Cyanide analysis	50 ml

UJ Value is undetected and the quantitation is approximate due to limitations identified in the quality control review.

APPENDIX F

FISH SPECIES FOUND IN OLD TANNERY BROOK, MAD RIVER, AND NAUGATUCK RIVER - CTDEP 1992

STREAM NAME : LEWIS BROOK SITE #: 3107
 SITE DESCRIPTION: UPSTREAM OF CASTLE MEADOW RD., NEWTOWN.

SAMPLE LENGTH : 50. SAMPLE DATE: 09/16/1991

PHYSICAL		CHEMICAL		MEAN	STD
AIR TEMP.	22.00 (C)	DISSOLVED OXYGEN (mg/l)			
WATER TEMP.	17.00 (C)	pH			
VELOCITY	0.075 (m/s)	COND	(us/cm3)		
DISCHARGE	0.012 (m3/s)	ALKALINITY	(mg CaCO3 eq/l)		
		MEAN	STD		
WIDTH		2.53	1.11 (m)		
DEPTH		5.72	4.05 (cm)		
DOMINANT SUBSTRATE TYPE	4	POOL/RIFPLE RATIO		0.67	
TYPE THREE SUBSTRATE	5.0 (%)	AIR/WATER TEMP. RATIO		1.29	
EMBEDDEDNESS OF TYPE THREE	20.00 (%)				
OVERHEAD CANOPY	0.92 (%)				
INSTREAM SHELTER	0.300 (m2)				

SPECIES	BIOLOGICAL	POPULATION SIZE (Number/ha)	STANDARD ERROR (Number/ha)
Lepomis macrochirus		79.	0.0
Rhinichthys atratulus		128.	0.0
Desmarestia atramentaria		79.	0.0
Notropis crysoleucas		0.	0.0
Micropterus salmoides		79.	0.0
Lepomis gibbosus			

STREAM NAME : OLD TANNERY BROOK SITE #: 3109
 SITE DESCRIPTION: 100 M UPSTREAM OF TOSCAN RD., PARALLEL TO RTE 69, WOLCOTT.
 (COBBLE STREAM, HEAVY FLOCCULANT)

SAMPLE LENGTH : 100. SAMPLE DATE: 07/09/1991

PHYSICAL		CHEMICAL		MEAN	STD
AIR TEMP.	22.00 (C)	DISSOLVED OXYGEN (mg/l)		8.93	0.18
WATER TEMP.	21.00 (C)	pH		6.37	0.38
VELOCITY	0.074 (m/s)	COND	(us/cm3)	115.33	2.08
DISCHARGE	0.017 (m3/s)	ALKALINITY	(mg CaCO3 eq/l)	19.33	0.38
		MEAN	STD		
WIDTH		3.06	0.58 (m)		
DEPTH		7.35	4.75 (cm)		
DOMINANT SUBSTRATE TYPE	4	POOL/RIFPLE RATIO		0.66	
TYPE THREE SUBSTRATE	4.3 (%)	AIR/WATER TEMP. RATIO		1.38	
EMBEDDEDNESS OF TYPE THREE	80.00 (%)				
OVERHEAD CANOPY	0.99 (%)				
INSTREAM SHELTER	1.680 (m2)				

SPECIES	BIOLOGICAL	POPULATION SIZE (Number/ha)	STANDARD ERROR (Number/ha)
Rhinichthys atratulus		2810.	114.0
Unknown cyprinid		98.	0.0
Desmarestia corporalis		1372.	0.0
Rhinichthys cataractae		1176.	0.0
Micropterus salmoides		522.	0.0
Lepomis gibbosus		22.	0.0
Etheostoma albertae		326.	0.0
Catostomus commersoni		588.	0.0

STREAM NAME : **BEAVER POND BROOK** SITE #: **3043**
 SITE DESCRIPTION: **PARALLEL TO RT 84, WATERBURY. (CHANNELIZED AREA BY FRIENDLY'S RESTAURANT)**
 SAMPLE LENGTH : **115.** SAMPLE DATE: **07/09/1991**

PHYSICAL		CHEMICAL		MEAN	STD
AIR TEMP.	127.00 (C)	DISSOLVED OXYGEN (mg/l) . . .		9.37	0.28
WATER TEMP.	21.00 (C)	pH		7.60	0.30
VELOCITY.	0.039 (m/s)	COND (us/cm3) . . .		349.33	10.07
DISCHARGE	0.031 (m3/s)	ALKALINITY . (mg CaCO3 eq/l):		46.63	0.40

		MEAN	STD	
WIDTH.		1.86	0.73	(m)
DEPTH.		17.42	12.41	(cm)

DOMINANT SUBSTRATE TYPE. . .	4	POOL/RIPPLE RATIO . . .	0.67
TYPE THREE SUBSTRATE . . .	11.8 (%)	AIR/WATER TEMP. RATIO:	1.29
EMBEDDEDNESS OF TYPE THREE .	58.00 (%)		
OVERHEAD CANOPY.	0.86 (%)		
INSTREAM SHELTER	36.830 (m2)		

SPECIES	BIOLOGICAL	POPULATION SIZE (Number/ha)	STANDARD ERROR (Number/ha)
<i>Lepomis macrochirus</i>		135.	0.0
<i>Salvelinus fontinalis</i>		45.	0.0
<i>Rhinichthys atratulus</i>		360.	0.0
<i>Salmo trutta</i>		22.	0.0
<i>Neon americanus</i>		128.	0.0
<i>Lepomis gibbosus</i>		48.	0.0
<i>Lepomis auritus</i>		90.	0.0
<i>Rheostoma elatedi</i>		1594.	40.0
<i>Catostomus commersoni</i>		315.	0.0

STREAM NAME : **MAD RIVER** SITE #: **3044**
 SITE DESCRIPTION: **30 M UPSTREAM OF CONFLUENCE WITH NAUGATUCK RIVER. WATERBURY. (BEHIND BUCKLE FACTORY)**
 SAMPLE LENGTH : **150.0** SAMPLE DATE: **08/01/1991**

PHYSICAL		CHEMICAL		MEAN	STD
AIR TEMP.	127.00 (C)	DISSOLVED OXYGEN (mg/l) . . .		8.97	0.15
WATER TEMP.	20.00 (C)	pH		7.13	0.25
VELOCITY.	0.148 (m/s)	COND (us/cm3) . . .		216.33	6.35
DISCHARGE	0.417 (m3/s)	ALKALINITY . (mg CaCO3 eq/l):		24.87	0.32

		MEAN	STD	
WIDTH.		11.55	1.26	(m)
DEPTH.		20.33	1.84	(cm)

DOMINANT SUBSTRATE TYPE. . .	4	POOL/RIPPLE RATIO . . .	3.12
TYPE THREE SUBSTRATE . . .	18.2 (%)	AIR/WATER TEMP. RATIO:	1.35
EMBEDDEDNESS OF TYPE THREE .	41.94 (%)		
OVERHEAD CANOPY.	0.67 (%)		
INSTREAM SHELTER	28.135 (m2)		

SPECIES	BIOLOGICAL	POPULATION SIZE (Number/ha)	STANDARD ERROR (Number/ha)
<i>Rhinichthys atratulus</i>		1668.	68.1
<i>Salmo trutta</i>		8.	0.0
Unknown centrarchid		8.	0.0
<i>Semotilus atromaculatus</i>		28.	0.0
<i>Luxilus cornutus</i>		1062.	51.7
Unknown cyprinid		11.	0.0
<i>Semotilus corporalis</i>		1021.	33.9
<i>Rhinichthys cataractae</i>		836.	151.2
<i>Micropterus salmoides</i>		120.	32.3
<i>Lepomis gibbosus</i>		5.	0.0
<i>Lepomis auritus</i>		103.	7.2
<i>Notropis hudsonius</i>		1038.	39.5
<i>Rheostoma elatedi</i>		1737.	660.7
<i>Catostomus commersoni</i>		4271.	371.7

STREAM NAME : NAUGATUCK RIVER SITE #: 3037
 SITE DESCRIPTION: 200 METERS DOWNSTREAM OF SPRUCE BROOK CONFLUENCE.
 BEACON FALLS. (RECONSTRUCTED AREA)
 SAMPLE LENGTH : 306.44 SAMPLE DATE: 08/06/1991

PHYSICAL		CHEMICAL		MEAN	STD
AIR TEMP.	(C)	DISSOLVED OXYGEN (mg/l). . .			
WATER TEMP.	(C)	pH			
VELOCITY.	0.123 (m/s)	COND. (uS/cm3). . .			
DISCHARGE	2.570 (m3/s)	ALKALINITY . (mg CaCO3 eq/l):			
		MEAN	STD		
WIDTH.		32.05	3.13	(m)	
DEPTH.		42.60	28.10	(cm)	
DOMINANT SUBSTRATE TYPE. . .		4	POOL/RIFPLE RATIO . . .		0.84
TYPE THREE SUBSTRATE . . .		20.0 (2)	AIR/WATER TEMP. RATIO:		
EMBEDDEDNESS OF TYPE THREE .		69.25 (2)			
OVERHEAD CANOPY.		0.00 (2)			
INSTREAM SHELTER		187.188 (m3)			

SPECIES	BIOLOGICAL	POPULATION SIZE (Number/ha)	STANDARD ERROR (Number/ha)
Anguilla rostrata		3.	0.0
Lepomis macrochirus		1.	0.0
Rhinichthys atratulus		119.	34.3
Salmo trutta		1.	0.0
Unknown centrarchid		1.	0.0
Bombus agrorum		16.	0.0
Lucilia cornutus		45.	0.0
Bombus corporalis		188.	15.8
Pimpla promelas		1.	0.0
Notemigona crysoleucas		4.	0.0
Rhinichthys cataractae		470.	142.6
Micropterus salmoides		28.	3.6
Lepomis gibbosus		1.	0.0
Ambloplites rupestris		10.	3.3
Lepomis auritus		47.	0.0
Micropterus dolomieu		8.	0.0
Notropis hudsonius		238.	1.6
Etheostoma caeruleum		80.	9.1
Catostomus commersoni		1147.	6.4