R-585-4-9-13 SITE INSPECTION USING AVAILABLE INFORMATION OF DUBLIN WATER SUPPLY PREPARED UNDER

> TDD NO. F3-8901-23 EPA NO. PA-2201 CONTRACT NO. 68-01-7346

> > FOR THE

HAZARDOUS SITE CONTROL DIVISION U.S. ENVIRONMENTAL PROTECTION AGENCY

AUGUST 9, 1989

NUS CORPORATION SUPERFUND DIVISION

SUBMITTED BY

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Site Name: Dublin Water Supply TDD No.: F3-8901-23

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Site Name: Dublin Water Supply TDD No.: F3-8901-23

#### **1.0 INTRODUCTION**

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#### 1.1 Authorization

NUS Corporation performed this work under Environmental Protection Agency Contract No. 68-01-7346. This specific report was prepared in accordance with Technical Directive Document No. F3-8901-23 for the Dublin Water Supply site (Thompson Property) located in Dublin, Pennsylvania.

#### 1.2 Scope of Work

NUS FIT 3 was tasked to conduct a site inspection using available information of the subject site.

#### 1.3 Summary

The Dublin Water Supply site is located within the corporate limits of Dublin Borough, Bucks County, Pennsylvania and is currently owned by John H. Thompson, of Doylestown, Pennsylvania. The site consists of approximately 4.8 acres of property situated north of and adjacent to Mill Street.

During a routine drinking water sampling survey by the Bucks County Health Department (BCHD), elevated levels of trichloroethylene (TCE), 1,1,1-trichloroethane (1,1,1-TCEA), and tetrachloroethene (PCE) were detected in area wells. Subsequent sampling efforts by the Pennsylvania Department of Environmental Resources (PA DER) confirmed the BCHD results. Wells sampled on the Thompson property (Thompson plant well no. 1 and Thompson plant well no. 2) contained some of the highest TCE concentrations (up to 10,000 ppb). Several wells located north of the property also indicated elevated levels of TCE [i.e., Whistlewood Apartment Complex (420 ppb to 500 ppb)]. As a result of the elevated levels, BCHD requested assistance from EPA Region III. On September 3, 1986, the EPA Region III Emergency Response Section visited the site. (Refer to appendices A and B for BCHD and PA DER sample analysis results, respectively.)

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A potentially responsible party search was completed on the Thompson property by Techlaw, Incorporated for EPA. The report states that past industrial operations by Kollsman Motor Corporation (1959 to 1971) and Dudly Sports, Division of Athlone Industries, Incorporated (1973 to 1986) utilized TCE and related solvents. Furthermore, the report states that questionable wastehandling procedures may have been instituted by both Kollsman Motor and Athlone Industries. Unknown quantities of TCE waste may have been disposed on the ground surface and the macadam behind the site buildings, according to depositions provided to Techlaw personnel by former employees of each facility and a life-long neighbor of the subject site.

Mr. Thompson officially entered into a Consent Agreement and Order with EPA on June 8, 1987. To date, Mr. Thompson has satisfied the requirements set forth in the agreement. The general requirements were as follows:

- Retain a qualified contractor (BCM Eastern, Incorporated).
- Provide and maintain adequate treatment systems to all residents and commercial employees exposed to TCE levels greater than 5 ppb.
- Conduct periodic monitoring of wells for all residents at risk.

Refer to appendix C (Consent Agreement and Order, paragraphs 20 through 28).

A hydrogeologic investigation plan was prepared by BCM (July 1987) to further delineate groundwater conditions beneath the site and to determine the need for remedial measures. The hydrogeologic investigation plan was approved by PA DER on August 27, 1987. As outlined in this plan, on-site soil samples were obtained, and two on-site monitoring wells (MWs) were installed and later sampled. Elevated levels of TCE were identified in on-site soils. Analysis of the two on-site MWs indicated levels of 17,500 ppb TCE in MW-1 and 313 ppb TCE in MW-2. Also found at elevated levels in MW-1 were PCE and 1,1,1-TCEA. Quarterly monitoring of two on-site production wells by BCM commenced in November 1987.

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Site Name: <u>Dublin Water Supply</u> TDD No.: <u>F3-8901-23</u>

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Roy F. Weston and Geraghty and Miller, Incorporated were retained by the Whistlewood Apartment Complex and the residents of Dublin, respectively. Both firms were contracted to assist in determining the source of contamination on behalf of their clients. Geraghty and Miller installed a total of eight MWs within the site vicinity. Sample analysis of the wells confirmed TCE contamination of area groundwater. A report by Weston attempted to define the source of contamination based upon available information. Additionally, on-site drums and soils sampled by Weston personnel indicated the presence of TCE.

Residents within a three-mile radius of the subject site utilize groundwater for potable water. The total population using groundwater has been determined to be 10,118.



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Site Name: Dublin Water Supply TDD No.: F3-8901-23 (Red) (Red)

#### 2.1 Location

The site is located along Mill Street within the corporate limits of Dublin Borough, Bucks County, Pennsylvania (see figure 2.1, page 2-2). According to the United States Geological Survey (U.S.G.S.) Doylestown, Pennsylvania quadrangle map, the site's coordinates are 40° 22" 10' north latitude and 75° 12" 20' west longitude. As measured from the northwestern corner of the Doylestown quadrangle, the site is 6.25 inches east and 0.75 inch south.<sup>1</sup>

#### 2.2 Site Layout

The site consists of approximately 4.8 acres of land situated adjacent to Mill Street. Four on-site buildings encompass approximately 1.8 acres of the 4.8-acre property (see figure 2.2, page 2-3). Each of the buildings is connected to the others and is currently occupied by Thompson Racing (building nos. 1, 2, and 3) and Laboratory Testing, Incorporated (LTI) (building no. 4).<sup>2,3</sup>

A large percentage of the northwestern portion of the property is paved and utilized for parking and storage. A small metal shed is located northwest of building no. 2, approximately 65 feet from the chain-link fence.<sup>2</sup>

The northern corner of the property is occupied by a large fire tower that is maintained by Mr. Thompson.<sup>2</sup>

Two on-site monitoring wells, installed by BCM engineers, are located northwest and east of building no. 1. Two underground storage tanks containing fuel oil are located between building nos.1 and 2 and Mill Street.<sup>2</sup>

The property is bordered to the northwest by a large fruit orchard and to the southwest and southeast by residential homes. To the northeast, the property is bordered by the Farm Bureau of Pennsylvania.<sup>2</sup>

Access to the property is provided via Mill Street by two driveways located west of building no. 1. There are no access restrictions to the subject site.<sup>2</sup>

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#### 2.3 Ownership History

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Over the past four decades, the site has been owned by the following individuals and/or companies: Ernest A. Flach (April 25, 1945 to November 13, 1945); Dublin Hosiery Mill (November 13, 1945 to March 15, 1956); Home Window Company of Pennsylvania, Incorporated (March 15, 1956 to April 9, 1959); Kollsman Motor Corporation (April 9, 1959 to December 31, 1971); Sun Chemical Corporation, successor to Kollsman Instrument Corporation (December 31, 1971 to August 28, 1973); Bucks County Industrial Development Authority and Athlone Industries, Incorporated (August 28, 1973 to January 30, 1986); and John H. Thompson (January 30, 1986 to present).<sup>4</sup>

#### 2.4 Site Use History

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The property was utilized as a hosiery mill from the 1930s until 1945 under different ownerships. Home Window Company of Pennsylvania, Incorporated manufactured aluminum doors and windows at the property from 1956 to 1959. Kollsman Motors Corporation manufactured small precision electric motors and instruments for aircraft and the aerospace industry from 1959 to 1971. Dudly Sports (division of Athlone Industries) began operations at the property in 1973. The facility processed baseballs and softballs. Mr. Thompson acquired the property in 1986. Antique race cars are restored in the main building by Mr. Thompson's organization.<sup>4</sup> Additionally, part of the property, including a building, is being leased to LTI, a government contractor. It is currently unknown what type of work is conducted by LTI.<sup>3,4</sup>

#### 2.5 Permit and Regulatory Action History

Initial groundwater sampling by BCHD in the summer of 1986 revealed TCE contamination of private wells within the Dublin Borough area (see appendix A for BCHD sample analysis results). Subsequent sampling by PA DER confirmed BCHD sample results (see appendix B for PA DER sample analysis results). Based upon these sample results and further investigation by BCHD and PA DER, it was determined by both agencies that the likely point source of the TCE contamination was the Thompson property.<sup>5,6</sup>

BCHD officially requested assistance from EPA Region III Emergency Response Section to evaluate the site. On September 3, 1986, a preliminary assessment was conducted by the on-scene coordinator (OSC) with the assistance of the Roy F. Weston Technical Assistance Team (TAT).<sup>7</sup>

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On June 8, 1987, John H. Thompson officially entered into a Consent Agreement and Order with EPA. Mr. Thompson retained the services of BCM Eastern, Incorporated to satisfy requirements described in the draft Consent Agreement and Order. On March 27, 1987, BCM submitted to EPA a draft work plan designed to satisfy stipulations set forth in paragraph nos. 20 to 28 of the Consent Order (see appendix D). The plan describes the means by which treated water has been provided to private well owners, based upon EPA-established tiers. Each tier addresses a TCE concentration range, appropriate corrective actions, and follow-up sample monitoring. The work plan was finalized on May 21, 1987. Implementation occurred on June 29, 1987 when EPA Region III Administrator James M. Seif signed the Consent Agreement and Order. To date, Phase I (identification of contaminated wells and respective TCE concentrations) and Phase II (installation of appropriate treatment systems) have been completed. Phase III, which involves periodic sampling of the contaminated wells before and after treatment, the continued provision of bottled water, and the recording of flow rates of wells during each sampling period, is currently being implemented. The most recent sample results associated with Phase III may be found in appendix E.7.8.9

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A revised hydrogeologic investigation plan was submitted to PA DER on July 9, 1987 by BCM and was approved on August 27, 1987 (see appendix F). The plan, which consists of three phases (Phase I - Existing Data Review, Phase II - Site Characterization, and Phase III - Site Monitoring), is designed to further characterize groundwater conditions beneath the site and to determine the need for remedial measures. To date, Phases I and II have been completed. Phase II consisted of performing an on-site soil vapor survey and obtaining on-site soils. Results of the soil vapor survey revealed elevated levels of TCE (up to 43.1 mg/l) directly behind building no. 1 (see appendix G). On-site subsurface soil samples revealed trace levels of TCE up to 0.98 mg/kg (see appendix H). Two on-site monitoring wells were also installed per Phase II specifications. Sample results from monitoring well nos. 1 and 2 indicated elevated levels of TCE (17,500 ppb and 313 ppb, respectively). Phase III of the plan (Site Monitoring) is being implemented based upon a review of data collected from Phases I and II.<sup>10,11,12</sup>



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The Whistlewood Apartment Complex retained the services of Roy F. Weston to determine the point source of contamination of the complex's drinking water well. Roy F. Weston conducted a site visit to 120 Mill Street to determine the source of contamination of the Whistlewood well on January 21, 1988. The Weston final report, submitted on February 15, 1988, interpreted available hydrogeologic data to determine the source of contamination. Containers of waste solvent left by Athlone Industries, Incorporated, as well as on-site soils, were sampled by Weston personnel. Results indicated the presence of TCE and other related solvents within one of the containers. Soil analysis results revealed trace amounts of TCE, 1,1,1-TCEA, toluene, and xylene (see appendix I).<sup>13</sup>

Area residents affected by the TCE contaminant plume retained the services of Geraghty and Miller, Incorporated to determine the source of the TCE contamination. Geraghty and Miller installed eight monitoring wells within the vicinity of the Thompson property. Sample analysis results from the monitoring wells indicated TCE contamination downgradient of the Thompson property (see appendix J).<sup>14</sup>

On July 14, 1988 NUS FIT 3 conducted a preliminary assessment to determine if further action was deemed necessary for the subject site. NUS FIT 3 recommended that a site inspection/Hazard Ranking System (HRS) be performed on the subject site.

#### 2.6 Remedial Action to Date

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There has been no remedial action completed at the subject site.<sup>3</sup>

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#### 3.0 ENVIRONMENTAL SETTING

#### 3.1 Water Supply

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Groundwater is the sole source of drinking water within the three-mile-radius study area.

The Dublin Borough Municipal Water System provides potable water to approximately 327 people located within Dublin.<sup>15</sup> Source water is obtained from two wells located approximately 1/4 mile south-southeast of the site. Well no. 1 is utilized on a regular basis and has a total depth of 350 feet (pump depth: 230 feet). Well no. 2 is primarily used as a backup and has a total depth of 240 feet. The pump depth is unknown for well no. 2.<sup>16</sup> Both of these wells are expected to draw from the Brunswick and/or the Lockatong lithofacies.<sup>17</sup>

The remainder of the Dublin Borough residents (1,473 people) utilize private supply wells. This includes the population served by the Whistlewood Apartment Complex well and all other Dublin Borough residents. All private supply wells are expected to draw from the Brunswick and/or the Lockatong lithofacies.<sup>15,18</sup>

High Hope Orchard maintains an irrigation well for a 20-acre tract of land northwest of and adjacent to the subject site. The population served by this well is 30 persons.<sup>19,20</sup>

The Stonebridge housing development, located 1/2 mile north of the site and outside of the borough of Dublin, has its own well, which is maintained by Bedminster Township. The well serves as a potable water supply for 1,140 persons. The depth and yield of the well are unknown; however, the well is expected to draw from the Brunswick and/or Lockatong lithofacies.<sup>1,21,22</sup>

The Whistlewood Apartment Complex, situated approximately 1/4 mile northwest of the site, maintains a well on the complex property. A total of 142 apartments are provided water from this well. This well is most likely tapping the Brunswick lithofacies, although limited construction information is available.<sup>17,23,24</sup>

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Based upon a routine house count (3.8 persons per household) utilizing U.S.G.S. maps, approximately 10,118 people use groundwater within a 3-mile radius of the site. This figure reflects populations serviced by the Dublin Borough wells, the Whistlewood Apartment Complex well, the Stonebridge Housing Development well, all borough residents utilizing private supply wells, and the population using the High Hope Orchard irrigation well.<sup>1,16,24</sup>

These domestic wells draw from the Brunswick and the Lockatong lithofacies. Supporting well information for the townships within the study area is provided in appendix L.<sup>17,23</sup>

Population	Source
327	Dublin Borough Municipal Water System (86 connections times 3.8 people per connection)
933	Dublin Borough residents (1,800 population minus 327 municipally supplied)
540	Whistlewood Apartment Complex residents (142 times 3.8 persons per household equals 540 persons)
1,140	Stonebridge Housing Development (300 times 3.8 persons per household)
7,148	House count outside Dublin Borough limits, not including Stonebridge Housing Development
30	High Hope Orchard irrigation well (20 acres times 1.5 persons per acre)
10,118	Total population



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#### 3.2 <u>Surface Waters</u>

Site surface water drainage is expected to flow in a northwestward direction via street drainage because the majority of the property is currently paved with asphalt.<sup>2</sup>

Drainage not absorbed by the fruit orchard is collected by a drainage ditch situated on the northern corner of the property near the fire tower. The ditch traverses in a northwestward direction and is believed to discharge into an unnamed perennial tributary of Morris Run, located approximately 1/2 mile northwest of the site. The confluence of this tributary and Morris Run is located approximately 1.5 stream miles northwest of the site. Morris Run flows in a general northwestward direction for approximately six stream miles before discharging into Perkiomen Creek.<sup>1,2</sup>

Palustrine wetlands border the site approximately 0.25 mile north and south of the site.

Based upon available information, Morris Run is not actively stocked by the Pennsylvania Fish Commission and is not utilized for drinking water purposes.<sup>26</sup>

During the NUS FIT 3 inspection, a storm sewer outlet was observed at the origin of the drainage ditch. According to BCHD, floor drains from building nos. 1 and 3 and the boiler room are connected to the storm sewer system and ultimately discharge via the outlet to the drainage ditch.<sup>2,4,13</sup>

#### 3.3 <u>Hydrogeology</u>

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

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Site Name: <u>Dublin Water Supply</u> TDD No.: <u>F3-8901-23</u> ORIG(WAL

#### 3.3.1 Geology

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The three-mile-radius study area surrounding the Dublin Water Supply site lies entirely within the Triassic Lowlands Section of the Piedmont Physiographic Province. This section is distinguished as a broad intermontane basin that extends from southeastern New York, across New Jersey, southeastern Pennsylvania, and central Maryland, into northern Virginia. The maximum width of this basin is approximately 32 miles in Bucks County, Pennsylvania. This basin consists of thick, interbedded sequences of Late Triassic age red shale and sandstone with subordinate conglomerate, arkose, and argillite of the Newark Group. The exact origin of the sediments has been debated; however, most sources indicate that they are the product of erosion from the highlands to the north and south of the present outcrop area. In general, the arkose and the conglomerate were derived from Cambrian and Precambrian rocks that border the basin to the south. The parent material for the shale and sandstone was apparently the Silurian, Devonian, and Mississippian age sediments to the north. As a result of differential weathering, a sub-trellis drainage pattern dominates the study area. Palustrine wetlands, many of which exceed five acres in size, are mapped within the study area. The larger areas are located along Morris Run to the northwest of the site.<sup>1,17,27,28,29</sup>

Following deposition, the strata of the Newark Group were intruded locally by diabase sills and dikes and then normal faulted and tilted into their present position. The Newark Group within the study area strikes generally northeast-southwest and dips between 5 and 20 degrees to the northwest. According to site-specific field work, performed by Roy F. Weston, Incorporated in 1988, the strike of the bedding in the study area ranges from north 55 to 80 degrees east, and the dip ranges from 9 to 16 degrees to the northwest. The dominant fracture pattern is reportedly oriented north 45 degrees east, and the dip is nearly vertical. A subordinate fracture pattern was also noted during this field work, and it was oriented north 87 degrees east and dipping 82 degrees to the northeast.<sup>13,27,28</sup>

The Newark Group has been subdivided into three lithologic units. In ascending order, they are the Stockton sandstone, the Lockatong black argillite, and the Brunswick red shale (see figure 3.1, page 3-5). These units, especially the Lockatong and Brunswick Formations, are interfingered in the study area, which is believed to represent either rapidly changing depositional conditions or deposition from different sources. Estimates of the total thickness of the Newark Group in Bucks County range from 2,000 to more than 12,000 feet.<sup>17,28</sup>

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In general, the Brunswick lithofacies stratigraphically overlies the Lockatong, which is conformably underlain by the Stockton lithofacies. However, in the study area, the upper red beds of the Lockatong lithofacies are believed to be contemporaneous with the lower and middle beds of the Brunswick lithofacies; therefore, the two units are interfingered. Under these conditions, these units are found in alternating layers under the site to an estimated combined thickness of 9,000 feet above the Stockton.<sup>17,28</sup>

The Lockatong Formation is mapped directly beneath the site and is exposed as several narrow, strikeparallel outcrops throughout the study area. The total stratigraphic thickness of the Lockatong ranges between 2,150 and 3,800 feet within Bucks County. This unit generally consists of dark gray to black, thick-bedded argillite (or mudstone) with occasional zones of thin-bedded black shale. Locally, thin layers of impure limestone and calcareous shale can be present. The upper beds of gray argillite are extensively interbedded with dark red argillite. Based upon a structural cross section through Dublin, well no. 5, located 400 feet along strike to the northeast, shows a thickness for the remaining uneroded Lockatong to be 100 feet. MW-1, located approximately 100 feet to the northeast (also along strike), encountered a decreasing percentage of gray shale and a concomitant increasing percentage of red shale 76 feet beneath the surface. This boundary probably delimits the top of the underlying Brunswick Formation. Based upon this information, the thickness of the Lockatong beneath the site is probably between 76 and 100 feet. 13,17,28,30

The Brunswick Formation is encountered between 76 and 100 feet directly beneath the site and is exposed approximately 280 feet northwest and 120 feet southeast of the site. The Brunswick is generally less resistant than the Lockatong and consists of soft red argillaceous shale interbedded locally with fine-grained red sandstone. The Brunswick Formation does not display prominent cleavage; however, it does contain numerous joints and fractures that are commonly inclined at a high degree to the bedding plane. The true vertical thickness of the Brunswick Formation may exceed 6,000 feet within Bucks County. This layer of the Brunswick is underlain by a second layer of the Lockatong that is approximately 300 feet thick.<sup>13,17,28,30</sup>

The Stockton lithofacies conformably underlies the Lockatong lithofacies and is encountered at a broadly estimated depth of 6,000 feet beneath the site. The Stockton is not exposed within the study area. This unit consists of light colored, coarse-grained, arkosic sandstone and conglomerate to fine-grained siliceous sandstone and red shale. The estimated stratigraphic thickness of the Stockton is 3,000 feet.<sup>17,28</sup>



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#### 3.3.2 Soils

According to the Soil Conservation Service, there are no strictly native soils on the site. The soils on the site are classified entirely within the Urban land - Abbottstown Complex (Uc), which consists of approximately 60 percent Urban land, 35 percent Abbottstown silt loam, and 5 percent included soils (see figure 3.2, page 3-8). Urban land is defined as land that is highly developed, in which large portions are paved or covered with buildings or the soils are highly variable and mixed with foundation material. The Abbottstown Complex is described as a poorly drained silt loam and is generally underlain by shale bedrock. The pH of the upper layer of the Abbottstown Complex is very strongly to moderately acidic (4.5 to 6.0). The permeability of this layer ranges from 4.45 X 10<sup>-4</sup> to 1.41 X 10<sup>-3</sup> cm/sec.<sup>31</sup>

Site-specific information collected during soil boring completed by BCM, Incorporated indicates that the on-site soils generally consist of brown silt with a trace of clay, sand, and some shale fragments. The depth to bedrock, according to the borings, ranges from 5.5 to more than 9.8 feet (see appendix K). The drilling logs for MW-1 and MW-2 report that bedrock was encountered at 20 and 13 feet, respectively, beneath the surface.<sup>28</sup>

#### 3.3.3 Groundwater

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Both the Brunswick and the Lockatong lithofacies provide adequate supplies of water to wells for most domestic uses. However, the Brunswick is more often tapped to provide water to higher producing municipal and industrial wells. The permeability, transmissivity, and well yield figures of the Brunswick in the study area are, on the average, higher than those of the Lockatong.<sup>17,27</sup>

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Source: Soil Survey of Bucks and P.iladelphia Counties, Pennsylvania, 1975

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Within the Brunswick, groundwater is available under both water-table and semi-artesian conditions within the weathered and highly fractured zone, which may extend to depths up to 600 feet. Below 600 feet, void space is limited and the formation is essentially impermeable. The water-table aquifer is contained in the highly weathered zone to depths of approximately 250 feet. This zone is of low permeability compared to the underlying semi-artesian aquifer. The lower permeability of the upper zone is due to the weathered material filling the void space and thereby restricting groundwater flow and storage. The semi-artesian aquifer extends from approximately 250 to 600 feet below the surface. This water-bearing zone receives recharge from the overlying water-table aquifer. Most municipal and industrial wells in the Brunswick tap both the unconfined and semi-confined zones; therefore, it is difficult to assess the hydrologic characteristic of each of the aquifers individually. According to the Groundwater Inventory System, 52 Bucks County wells tapping the Brunswick have yields from less than 2 to 260 gallons per minute (gpm); the average is reported to be 40 gpm (see appendix L).<sup>17,23</sup>

The hydrologic characteristics of the Lockatong lithofacies have been compared with those of crystalline rocks. The Lockatong displays both fracture and solution porosity due to faulting and weathering. Like the Brunswick, groundwater in the Lockatong occurs in water-table and semiartesian conditions. The depth of the weathered zone, or the top of the consolidated bedrock, according to the Pennsylvania Groundwater Inventory System and on-site monitoring well drilling, ranges from approximately 4 to 22 feet below the surface. The reported yields of 42 Bucks County wells within the Lockatong range from 2 to 25 gpm. The average yield is 10 gpm. The specific capacity of five Bucks County wells for which information is available range from 0.10 to 1.88 gpm per foot of drawdown. Well yields within the Lockatong range from approximately 2 to 22 gpm.<sup>17,23</sup>

Within the study area, the water-bearing zones of the Brunswick and Lockatong lithofacies should be considered interconnected, because of their fractured nature and the extent of interfingering. There are no documented continuous groundwater barriers within the study area. It is possible, however, that a hydraulic gradient may exist between the Brunswick and the Lockatong because of their differences in permeabilities.<sup>17,23,28</sup>

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On June 7, 1988, at monitoring well nos. 1 and 2, the water table was encountered at 31.17 and 35.21 feet beneath the surface, respectively. Recharge to the area is most likely derived from a shallow knoll located approximately 0.25 mile to the southeast of the site. Groundwater flow direction in the site vicinity, as indicated by area monitoring wells and the extent of the contamination plume, is apparently to the northwest in the approximate direction of the surface slope and structural dip.1,13,17,30

#### 3.4 Climate and Meteorology

The average annual temperature of Allentown, Pennsylvania, the closest meteorological data station to the site, is 51.1°F. The coldest month is January, with an average annual temperature of 27.4°F. The warmest month is July, with an average annual temperature of 74.0°F. The average annual precipitation for Allentown, Pennsylvania is 43.89 inches. The mean annual lake evaporation is 34.0 inches. As a result, the net annual precipitation for the area is 9.89 inches. The 1-year, 24-hour rainfall value is 2.7 inches.<sup>32,33</sup>

#### 3.5 Land Use

The site is situated in an area dominated by residential and light commercial land usage. To the southeast and southwest, residential dwellings exist. A large fruit orchard is located adjacent to and northwest of the subject site.<sup>2</sup>

#### 3.6 **Population Distribution**

The population within one, two, and three miles of the subject site was calculated by using U.S.G.S. 7.5 minute series quadrangle maps (routine house-count method: 3.8 persons per household) and 1980 census data for the borough of Dublin.<sup>1</sup>

1-mile radius = 3,777 2-mile radius = 6,341 3-mile radius = 10,118

#### 3.7 Critical Environments

According to the United States Department of the Interior, Fish and Wildlife Service, there are no federally listed endangered or threatened species within the three-mile-radius study area.<sup>34</sup>



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#### SECTION 4

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## AR100804

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**g**. ,

Site Name: <u>Dublin Water Supply</u> TDD No.: <u>F3-8901-23</u> (Red.

AR100805

#### 4.0 WASTE TYPES AND QUANTITIES

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An EPA contractor, Techlaw, Incorporated, was tasked to conduct research on potentially responsible parties associated with the subject site. A potentially responsible party search final report was submitted to EPA on August 21, 1987. Information concerning the use, storage, and/or disposal of TCE was collected by contacting public officials, obtaining and reviewing EPA, state, and local documents, and interviewing individuals possessing knowledge of the site (see appendix M).<sup>4</sup>

The Kollsman Motor Instrument Company utilized solvents, including TCE, as degreasing agents. A degreasing machine was operated to clean small motors and motor parts and contained approximately 20 to 30 gallons of TCE. The solvent was changed approximately every two to three weeks. A former employee of Kollsman Motors stated that "wastes were taken to 55-gallon drums kept outside, behind the main building." The employee indicated that the waste was probably transported off site; however, he was not sure.<sup>4</sup>

A life-long neighbor of the subject property recalled that, in the early 1960s, when Kollsman occupied the property, employees carried five-gallon pails from the plant and dumped the liquid contents of those pails outside on the ground on two occasions. The liquid was oily looking and killed grass where it was disposed.<sup>4</sup>

Additionally, employees in the Kollsman machine shop disposed small quantities of TCE on the macadam outside behind the main building.<sup>4</sup>

Under the operation of Athlone Industries, Incorporated, Safety Solvent No. 2 was utilized in an electrical degreaser. Some of this solvent remains at the property and is contained in a drum marked as "Safety Solvent #2 Electrical Degreaser." A sample collected from this drum by Roy F. Weston, consultants retained by the Whistlewood Apartment Complex, revealed concentrations of 1,1,1-TCEA, TCE, and PCE.<sup>4</sup>

A former employee of Athlone Industries initially stated that wastes were put on the parking lot or in sewers, but he later stated that the waste was put in barrels and transported to an unknown destination.<sup>4</sup>

No conclusive evidence was collected concerning the amount of waste solvents generated by either facility.<sup>4</sup>

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#### SECTION 5

# AR100806.

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#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMAT

F3-8901-23

I. IDENTIFICATION 01 STATE 02 SITE NUMBER

ORMATION	0.4	0001
	PA	2201

Fee.

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II. SITE NAME AND LOCATION								
01 SITE NAME (Legal, common, or descriptive nar	ne of site)		02 STREET	, ROUTE NO., OR	SPECIFIC LOCATION	DENTIFIER		
DUDIIN WATER SUDDIV SILE				120 Mill Street				
03 City Dublin			DA STATE	18917	Bucks	017 OIST PADS		
	I ONGITUDE	IN TYPE OF OWN		10317	DUCKS			
40° 22' 10" 75°	2 12' 20"			EDERAL	<b>[]c.</b> \$7	TATE D COUNTY DE MUNICIPAL		
III. INSPECTION INFORMATION	-							
01 DATE OF INSPECTION		03 YEARS OF C	PERATION	l r	present			
N/A	INACTIVE		BEGINNING Y	EAR EN	IDING YEAR	UNKNOWN		
04 AGENCY PERFORMING INSPECTION (Check all	that apply)							
🗖 A. EPA 🛛 B EPA CONTRACTOR	NUS Corpoi (Name of firm	ration 🛛 🗆 c	. MUNICIPAL	D. MUN	CIPAL CONTRACTOR	(Name of firm)		
E STATE F STATE CONTRACTOR	(Name of fi	(m)	OTHER		(Specify)			
	06.71	71 6						
Jocoph Manchosani	0011	Goologist			NUS ETT 2	(215) 697-9510		
OUSEDIT MATCHESAN					11 ORGANIZATION	12 TELEPHONE NO.		
		· • •						
13 SITE REPRESENTATIVES INTERVIEWED	14 TI	TLE	15 ADDRE	:55		16 FELEPHONE NO		
			1		<u> </u>			
			- <b> </b>					
		<u></u>						
17 ACCESS GAINED BY 18 TIME OF (Check one) N/A	INSPECTION	19 WEATHER COND	TIONS					
PERMISSION N/A		N/A						
IV. INFORMATION AVAILABLE FROM						1010007		
01 CONTACT	02 0	F (Agency/Organizatio	n)			Hatter but the		
Paul Racette		U.S. EPA				<sup>~</sup> (215) 597-1		
04 PERSON RESPONSIBLE FOR SITE INSPECTION F	0RM 05 4	GENCY NUS	06 ORGA FI	NIZATION	07 TELEPHON 687-95	10 08 CATE 0 3/27/89		

EPA FORM 2070-13 (7-81)

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		1	POTENTIAL HAZARDOUS WASTE SITE				I. IDENTIFICATION		
V	EPA	۸ <b>۳</b>	PART 2 - WASTE INFORMATION					02 SITE NUMBER 2201	
H. WASTE STAT	TES, QUANTITIES, AND CH	ARACTERIS	STICS						
A. SOLID	STATES (Check all that apply)	02 WAST (Mezi indec	EQUANTITY AT SITE sures of waste quantities must endent)	•• 0		RACTERIS	CLUBLE	it apply) I. HIGHI Y VÖLATILE	
	ER, FINES X F. LIQUID	Т	ONS	[				J. EXPLOSIVE	
		CUBIC YA	RDS unknown	č				L. INCOMPATIBLE	
	(Specify)	NO. OF D						M. NUT APPLICABLE	
III. WASTE TYP	E								
CATEGORY		1E	01 GROSS AMOUNT	02 UNIT	OF MEASURE	03 CON	AMENTS		
SLU	SLUDGE								
OLW	OILY WASTE								
SOL	SOLVENTS		unknown	N/	/A	On-si	ite and off-	site	
PSD	PESTICIDES					TCE-c	ontaminated	groundwater a	
ဝငင	OTHER ORGANIC CH	EMICALS				on-sit	te TCE-conta	minated soils	
IOC	INORGANIC CHEMIC	ALS							
ACD	ACIDS								
BAS	BASES			L	ان و المحد الباري : • المحد ال				
MES	HEAVY METALS				. Have be		<u></u>		
V. HAZARDOU	IS SUBSTANCES (See Appendi	ix for most free	quently cited CAS Numbers)				· .		
01 CATEGORY	- 02 SUBSTANCE NAME		03 CAS NUMBER	04 STOP	AGE DISPOSAL MET	HOD	05 CONCENTRATIO	N OF MEASURE OF CONCENTRATION	
SOL	trichloroethene (TC	E)	79-01-6	sloppy	housekeeping	,	17,500	ug/1	
SOL	trans-1,2-dichloroe	thene		and/or	spills		240	ug/1	
	* Sample results a	re from a	n on-site monitor	ing well.	. Analysis d	of sever	ral area wel	1s	
	indicated elevat	ed levels	of TCE in excess	of drinl	king water st	tandaris	;		
	R			<u> </u>					
				<u> </u>					
				<u></u>					
				and the second					
				<b> </b>					
I			l	<u>l</u>					
V. FEEDSTOCK	(See Appendix for CAS Number)	» N/A	·····		فليتم والمتعادية والمتعادية				
CATEGORY	01 FEEDSTOCK N		02 CAS NUMBER	CATEGO	ORY 011	01 FEEDSTOCK NAME 02 CA		02 CAS NUMB	
FDS				FDS					
FDS			and the second	FDS				_ <u></u>	
FDS				FDS				1	
	1		]	ະDS	1			1	
FDS	" <b></b>			240					

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PO'	TENTIAL HAZARDOUS WASTE SITE	I. IDENTIFICATION
EPA PAINT 3 - DE	SITE INSPECTION REPORT ESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	01 STATE 02 SITE NUMBER PA 2201
N. HAZARDOUS CONDITIONS AND INCIDENTS		
01 D A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 10.11 Initial sampling by BCHD in the summer o and on-site soil and groundwater samplin Incorporated confirmed TCE contamination	02 DOBSERVED (DATE: <u>6/27/86</u> ) 8 04 NARRATIVE DESCRIPTION 15 1986 revealed TCE contamination in area 19 by PA DER, BCM Engineers, Weston, and Ge 1 of area groundwater.	POTENTIAL ALLEGED wells. Subsequent off-site araghty and Miller,
01 D B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: None reported or observed.	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	DOTENTIAL DALLEGED
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: None reported or observed.	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL ALLEGED
01 D FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: According to the Dublin Borough code enf	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION Forcement officer, the property is not a fi	POTENTIAL ALLEGED
01 DI E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: 3,89 The site is accessible; no barriers surr and/or spilled onto the ground. The pop	02 OBSERVED (DATE:) <u>18</u> 04 NARRATIVE DESCRIPTION round the site. Hazardous materials were s pulation potentially affected resides withi	POTENTIAL ALLEGED sloppily handled in one mile of the site.
01 🖸 F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: 4.8 (Acres) An on-site soil vapor survey was perform TCE (43.1 mg/l). Subsequent sampling st	02 2 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION med by BCM Engineers. Results indicated el nowed trace levels of TCE.	POTENTIAL ALLEGED
01 <b>DI</b> G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 10,1 Initial sampling by BCHD in the summer c and on-site soil and groundwater samplir Incorporated confirmed TCE contamination	02 DOBSERVED (DATE: <u>6/27/86</u> ) .18 04 NARRATIVE DESCRIPTION of 1986 revealed TCE contamination in area ng by PA DER, BCM Engineers, Weston, and Ge n of area groundwater.	POTENTIAL ALLEGED wells. Subsequent off-site eraghty and Miller,
01 <b>Q H. WORKER EXPOSURE/INJURY</b> 03 WORKERS POTENTIALLY AFFECTED: <u>unknown</u> There is a high potential for worker exp	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION posure and/or contact with on-site contamin	<b>D</b> POTENTIAL <b>C</b> ALLEGED nated soils.
01 🚺 1. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: 10,1 Initial sampling by BCHD in the summer of and on-site soil and groundwater samplir Incorporated confirmed TCE contamination discovered levels of TCE up to 1,000 ppt indicated elevated levels of TCE in a no	02 02 OBSERVED (DATE: <u>6/27/86</u> ) 188 04 NARRATIVE DESCRIPTION of 1986 revealed TCE contamination in area ng by PA DER, BCM Engineers, Weston, and Gr n of area groundwater. During a routine d' b in 23 tap water samples. Also, subseque earby apartment complex. Approximately 17(	POTENTIAL ALLEGED wells. Subsequent of eraghty and Miller, rinking water survey, BCHD nt sampling by Weston 0 homes, apartments, and

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	POTENTIAL HAZARDOUS WASTE SITE派的時期 SITE INSDECTION DEDODT	I. IDENTIFICATION
<b>EPA</b>	PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	OI STATE OZ SITE NUME PA 2201
I. HAZARDOUS CONDITIONS AND IN	CIDENTS (Continued)	
01 DAMAGE TO FLORA	02 GOBSERVED (DATE:)	D POTENTIAL D ALLEGED
04 NARRATIVE DESCRIPTION		
A life-long neighbor of 12	0 Mill Street, Wilmer Moyers, was interviewed. Mr. Moy	vers recalled an incident
in the early 1960s (when K	ollsman owned the property) when men dumped the content	s of five-gallon buckets
the ground, killing the gr	ass.	
01 LI K. DAMAGE TO FAUNA	02 U OBSERVED (DATE:)	D POTENTIAL D ALLEGED
04 NARRATIVE DESCRIPTION (Inclue	de name(s) of species)	
None reported or observed.		
	D CHAIN 02 OBSERVED (DATE:)	
04 NARRATIVE DESCRIPTION		
None reported or observed.		
	T OF WASTES 02 OBSERVED (DATE:)	D POTENTIAL D ALLEGED
(Spills, Runoff, Standing li	quids, Leaking drums)	
03 POPULATION POTENTIALLY AFF	ECTED: 04 NARRATIVE DESCRIPTION	
During the NUS FIT 3 preli of wastes.	minary assessment site visit on July 14, 1988, there wa	s no unstable containment
01 D N. DAMAGE TO OFF-SITE PRO	OPERTY 02 0 OBSERVED (DATE: 6/27/86 )	
04 NARRATIVE DESCRIPTION		
There is TCF contamination	of off-site drinking water wells	
mare to the containing run	or or othe armining much metter	
01 O. CONTAMINATION OF SEWERS, STO	DRM DRAINS, WWTPS 02 OBSERVED (DATE:)	D POTENTIAL D ALLEGED
04 NARRATIVE DESCRIPTION		
None reported or observed.		
01 0 P. ILLEGAL/UNAUTHORIZED	DUMPING 02 COBSERVED (DATE:early 1960s )	D POTENTIAL D ALLEGED
04 NARRATIVE DESCRIPTION		
Wilmon Movens a noighbor	of the site allegedly witnessed the dymning of an Neil	v-looking substance!
on site.	or the site, arregedly withessed the dumping of an "Oll,	y-rooking substance"
US DESCRIPTION OF ANY OTHER KI	NUWN, POTENTIAL, OR ALLEGED HAZARDS	,
None reported or observed.		
I. TOTAL POPULATION POTENTIALL	Y AFFECTED: 10,118 (3 miles)	
Nono		
SOURCES OF INFORMATION (Cite	specific references, e.g., state files, sample analysis, reports)	AD 100010
		AKIUUOIL
NUS FIT 3. Preliminary as:	sessment. July 14, 1988; BCM Engineers laboratory resu	Its, September 27, 1988;
TA UEK FILES; EPA Files; Ge	eragnity and Miller laboratory results, June 27, 1986; W	eston source contaminatio
caunta reprudry 15, 1988;	1907 1997 The second ble Party Search, August 21,	1987; Versar, Incorporate
Sample results, November S	J, 170/.	
A FC RM 2070-13 (7-81)		·

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# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

PA

OT STATE OZ SITE NUMBER 2201

H. PERMIT INFORMATION						par.
DI TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE IS	SUED	04 EXPIRATION DATE	05 COMM	ENTS
B.UIC		+				
C. AIR		<u>†</u>				
D. RCRA		<b>†</b>				
		†				• • • • • • • • • • • • • • • • • • •
F SPCC PLAN		$\top$				
G. STATE (Specify)		1				
H. LOCAL (Specify)		1				
L OTHER (Specify)	T	1				
J. NONE		1				
II. SITE DESCRIPTION						
1 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT 03 UNIT OF	MEASURE	04 TREAT	MENT (Check all that apply	)	05 OTHER
A. SURFACE IMPOUNDMENT B. PILES C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND C. TANK, BELOW GROUND F. LANDFILL G. LANDFARM H. OPEN DUMP L. OTHER <u>spills</u> (Specify)	unknown 2 unknown unknown	nówn	□ A. INC □ B. UNI □ C. CHI □ D. BIC □ E. WA □ F. SOL □ G. OT □ H. OT	INERATION DERGROUND INJECT EMICAL/PHYSICAL STE OIL PROCESSING VENT RECOVERY HER RECYCLING/REC HER(Specify)	G COVERY	A. BUILDINGS ON SITE four buildings are on site 06 AREA OF SITE 4.8 (Acres)
a federal or state hazardous	waste permit. The	storage t	ime was	more than 90 da	ays.	
)1 CONTAINMENT OF WASTES (Check	one)	0 C. INAD	EQUATE,	POOR D.1	NSECURE	, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, I Floor drains in two building: the northwest.	LINERS, BARRIERS, ETC. s lead to a storm set	wer, whic	ch drain	s into a swale t	that rur	is toward
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE: 22 Y 02 COMMENTS Drums inside a Quonset hut	YES INO	ton.				
VI. SOURCES OF INFORMATION (Cite s	ipecific references, e.g., st	ate files, sa	imple ana	lysis, reports)	<u> </u>	
			·			
Weston Source Contamination S NUS FIT 3. Preliminary asses	Study. February 15, ssment. August 14,	1988. 1988.				ARIUUOI

	PART	5 · WATER	, DEMOGRAPHIC	C, AND ENVIRO	NMENTA	L DATA	PA	2	201
. DRINKING WATER SU	JPPLY						1, 11	balte y	
AT TYPE OF DRINKING			02 STATUS		أحقفاهم يصدحها الكت		(r ()	OISTANCE TO	SITE
(Check as applicable)	SURFACE	WELL	ENDANGERED	AFFECTED	MONITO	RED			
COMMUNITY	A. 🖸	B. 🖸	A. 🖸	в. 🗖	c.l	2	A	0.57	(mi)
NON-COMMUNITY	c. 🗆	D. 🛛	D. 🔀	Ē. 🛛	F. (	X	B	0.25	(mı)
II. GROUNDWATER									
01 GROUNDWATER US	E IN VICINIT	'Y (Check one	)						
A. ONLY SOURCE FOR	DRINKING	B. DRIN (Oth COM (No c	IKING er sources available) (MERCIAL, INDUSTRIAL, IR) other water sources available	C. COMN (Lim RIGATION ple)	AERCIAL, INDU: Inted other sour	iTRIAL, IRRIGA (es available)		D. NOT USED	, UNUSABL
02 POPULATION SERVED BY G	ROUNDWATER	1 <b>0,11</b> 8	3	03 DISTANCE TO	NEAREST DRIN	KING WATER W	ELL(	0.057	(n
04 DEPTH TO GROUNDWATE	ł	05 DIRECTION	OF GROUNDWATER FLOW	06 DEPTH TO AQ	UIFER	07 POTENTIA	L YIELD	OB SOLE SOL	RCE AQUI
31 to 35	(ft)	nor	thwest	13	(ft)	14.400	) (aod)		
	=`` 				· · · · ·				
IO RECHARGE AREA	Recha knoll (	arge is der D.25 mile t	rived from a to the southeast	11 DISCHARGE / 20 YES - NO	AREA COMMENTS	Discha located (	rge to Mo ).5 mile t	rris Run to the no	is rthwes
V. SURFACE WATER									
01 SURFACE WATER US	E (Check or	ne)							
A. RESERVOIR, RECRE	ATION, I SOURCE	🗖 8. IRRI IM	GATION, ECONOMICALLY PORTANT RESOURCES	С. соми	AERCIAL, INDU	TRIAL	C	D. NOT CURR	ENTLY USE
					برا النائنة على إرغاز بيور				
02 AFFECTED/POTENTI	ALLY AFFEC	TED BODIES	OF WATER					TANCE TO S	ITE
02 AFFECTED/POTENTI NAME: •	ALLY AFFE	TED BODIES	OF WATER		A	FFECTED	DIST		
02 AFFECTED/POTENTI NAME: - N/A	ALLY AFFE(				A		DIST		(m
02 AFFECTED/POTENTI NAME: - 	ALLY AFFE(				A		DIST		(m (m
02 AFFECTED/POTENTI NAME: - 					Α	FFECTED _	DIS1		(m (m (m
02 AFFECTED/POTENTI NAME: - 	ALLY AFFE(	INFORMATIC	OF WATER	· · · · · · · · · · · · · · · · · · ·	A		DIS1		(m 
02 AFFECTED/POTENTI NAME: - <u>N/A</u> 	PROPERTY		OF WATER		02 DIS		DIST		(m (m
02 AFFECTED/POTENTI NAME: - 	PROPERTY N WITHIN	INFORMATIC	OF WATER	) MILES OF SITE	02 DIS			0N	(m (m
02 AFFECTED/POTENTI NAME: . 	PROPERTY N WITHIN ITE TWO _ B.	INFORME THE	OF WATER DN SITE THREE (3 <u>5</u> C	) MILES OF SITE 10,118 10. OF PERSONS	02 DIS		DIS1	0N _(m1)	(mi (mi
02 AFFECTED/POTENTI NAME: . 	PROPERTY N WITHIN ITE TWO B ITHIN TWO (2)	INFORME THE	OF WATER DN SITE THREE (3 <u>5</u> C 04 DI	1) MILES OF SITE 10,118 10. OF PERSONS STANCE TO NEAREST OFF	A 02 DIS	FFECTED	DIS1	0N _(m1)	(m (m (m
02 AFFECTED/POTENTI NAME: . <u>N/A</u>	ALLY AFFE( PROPERTY N WITHIN ITE TWO B ITHIN TWO (2) 1,219	INFORMATIC (2) MILES OF 6,341 NO. OF PERSON MILES OF SITE	OF WATER DN SITE THREE (3 <u>S</u> C 04 Di	) MILES OF SITE 10,118 10. OF PERSONS STANCE TO NEAREST OFF		FFECTED	DIS1  REST POPULATI )_057 (mi)	0N _(m))	(m (m (m
02 AFFECTED/POTENTI NAME: . 	ALLY AFFE(           PROPERTY           N WITHIN           ITE           ITHIN TWO (2)           1,219	INFORMATK (2) MILES OF 6,341 NO. OF PERSON MILES OF SITE	OF WATER DN SITE THREE (3 <u>5</u> CN 04 DI	1) MILES OF SITE 10, 118 10. OF PERSONS STANCE TO NEAREST OFF	A 02 DIS F-SITE BUILDING 0.(	FFECTED TANCE TO NEA 5 057	DIS1 	0N _(mi)	(m (m (m

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EPA PARTS	POTENTIAL HAZARDO SITE INSPECTION WATER, DEMOGRAPHIC, A	US WASTE SITE	I. IDENTIFICATION 01 STATE 02 SITE NUMBER PA 2201
1. ENVIRONMENTAL INFORMATIO	N		
1 PERMEABILITY OF UNSATURATE	D ZONE (Check one) 10 <sup>−3</sup> – □ 8. 10 <sup>-4</sup> - 10 <sup>-6</sup> cm/sec ⊠C. 1	10 <sup>-5</sup> cm/sec 10 <sup>-4</sup> - 10 <sup>-3</sup> cm/sec D. GRE/	ATER THAN 10-3 cm/sec
2 PERMEABILITY OF BEDROCK (Ch A. IMPERMEABLE B (Less than 10 <sup>-6</sup> cm/sec)	eck one) 10 <sup>-3</sup> - . RELATIVELY IMPERMEABLE IDC. (10 <sup>-4</sup> - 10 <sup>-6</sup> cm/sec)	10 <sup>-5</sup> cm/sec RELATIVELY PERMEABLE D. (10 <sup>-2</sup> - 10 <sup>-4</sup> cm/sec)	VERY PERMEABLE (Greater than 10 <sup>-2</sup> cm/sec)
33 ОЕРТН ТО ВЕОЛОСК 5.5 to 20(#)	04 DEFTH OF CONTAMINATED SOIL ZONE	05 SOIL PH	
D6 NET PRECIPITATION 9.89 (in)	07 ONE-YEAR 24-HOUR RAINFALL	as slope site slope Direction of site si <u>3.75</u> % northwest	OPE TERRAIN AVERAGE SLOPE
19 FLOOD POTENTIAL SITE IS IN <u>N/A</u> YEAR FLOODI	10 N/A SITE IS ON BAR	RIER ISLAND, COASTAL HIGH HAZARD AREA, RIV	ERINE FLOODWAY
1 DISTANCE TO WETLANDS (S-acre minimum ESTUARINE A <u>&gt; 2</u> (mi	) OTHER ) 8 2(mi)	12 DISTANCE TO CRITICAL HABITAT (of end	langered species)       > 1    (mi)       DNE
4 DESCRIPTION OF SITE IN RELATION	DN TO SURROUNDING TOPOGRAPHY	is southeast to northwest.	(mi) U(mi)
/II. SOURCES OF INFORMATION (CH	te specific references, e.g., state files, sample ani	alysis, reports)	

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#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION

	DENTIFIC	ATH		
01	STATE	02	SITE	NU

NUMBER

JANNELS FIES		02 SAMPLES SENT TO	OR ESTIMATED DATE
مر المراجع الم	SAMPLES TAKEN		RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			
III. FIELD MEASUREMENTS TAK		······································	
DI TYPE	02 COMMENTS		
		,	
	N/A		
V. PHOTOGRAPHS AND MAPS	5 N/A		· · · · · · · · · · · · · · · · · · ·
DI TYPE			arre of organization of individual)
D1 TYPE GROUND			ame of organization or individual)
DI TYPE GROUND	AERIAL		arrie of organization or individual)
IV. PHOTOGRAPHS AND MAPS       I)1 TYPE     GROUND       I)3 MAPS     04 LOC       II YES     NO	AERIAL	02 IN CUSTODY OF(N	ame of organization or individual)
DI TYPE GROUND DI TYPE GROUND DI MAPS 04 LOC VES NO	AERIAL	02 IN CUSTODY OF	ame of organization or individual)
V. PHOTOGRAPHS AND MAPS D1 TYPE GROUND D3 MAPS 04 LOC YES NO V. OTHER FIELD DATA COLLEC	AERIAL	02 IN CUSTODY OF	ame of organization or individual)
V. PHOTOGRAPHS AND MAPS	AERIAL	02 IN CUSTODY OF(N	ame of organization or individual)
D1 TYPE       GROUND         D3 MAPS       04 LOC         YES       NO         NO          V. OTHER FIELD DATA COLLEC	AERIAL	02 IN CUSTODY OF(N	ame of organization or individual)
V. PHOTOGRAPHS AND MAPS	AERIAL CATION OF MAPS	02 IN CUSTODY OF	arrie of organization or individual)
ITYPE       GROUND         OTTYPE       GROUND         OTTYPE       OTTYPE         OTTYPE       OTTYPE	AERIAL ( CATION OF MAPS TED (Provide nerrative description	02 IN CUSTODY OF(N	ame of organization or individual)
ITYPE       GROUND         O1 TYPE       GROUND         O3 MAPS       04 LOC         YES       NO         NO          V. OTHER FIELD DATA COLLECT	AERIAL ( CATION OF MAPS TED (Provide narrative description	02 IN CUSTODY OF	ame of organization or individual)
ITYPE       GROUND         O1 TYPE       GROUND         O3 MAPS       04 LOC         YES       NO         NO          V. OTHER FIELD DATA COLLEC	AERIAL CATION OF MAPS TED (Provide nerrative description	02 IN CUSTODY OF(N	ame of organization or individual)
V. PHOTOGRAPHS AND MAPS	AERIAL CATION OF MAPS TED (Provide narrative description	02 IN CUSTODY OF	ame of organization or individual)
IV. PHOTOGRAPHS AND MAPS         D1 TYPE       GROUND         D3 MAPS       04 LOC         U YES       04 LOC         NO          V. OTHER FIELD DATA COLLEC         /I. SOURCES OF INFORMATION	N/A     AERIAL     CATION OF MAPS  TED (Provide nerrative description	02 IN CUSTODY OF	ame of organization or individual)
V. PHOTOGRAPHS AND MAPS	N/A AERIAL CATION OF MAPS TED (Provide nerrative description	D2 IN CUSTODY OF	arrie of organization or individual)

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#### POTENTIAL HAZARDOUS WASTE WIR SITE INSPECTION REPORT PART 7 - OWNER INFORMATION

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H. CURRENT OWNER(S)		PARENT COMPANY (if applicable)						
John H. Thompson		02 D + 8 NUMBER		os name N/A		٥	9 D + 8 NU	IMBER
03 STREET AODRESS (P.O. BOX, RFD #, etc.) 120 Mill Street			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 5	C CODE
os city Dublin	06 STATI PA	EQ	7 ZIP CODE	12 CITY	1	3 STATE	14 ZIP C	:00E
John H. Thompson		02 D	+ 6 NUMBER	OB NAME Thompson Toyota		٥	9 D + 8 NU	MBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 122 Swamp Road			04 SIC CODE	10 STREET ADORESS (P.O. Box, RFD #, etc.) 122 Swamp Road			11.50	C COOE
os city Doylestown	06 STATI PA	E O	17 ZIF CODE 18901	12 CITY Doylestown	1	3 state PA	14 ZIP C 18	:оое 3901
01 NAME		02 D	+ 8 NUMBER	OS NAME N/A		0	9 D + B NU	IMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 54	C CODE
OS CITY	06 STATE	E 0	7 ZIP CODE	12 СІТҮ	1	3 STATE	14 ZIP C	:00E
01 NAME			+ 8 NUMBER	OS NAME N/A			09 0 + 8 NUMBER	
03 STREET AODRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	- <u></u>	<b>*</b>	11 51	C CODE
05 CITY	06 STATE	E 0	7 ZIP CODE	12 CITY	1	3 STATE	14 ZIP C	ODE
III. PREVIOUS OWNER(S) (list most recent f	first)			IV. REALTY OWNER(S) (if applicable	, list most	recent	first)	
OINAME Athlone Industries		02 D	+ B NUMBER	01 NAME N/A		0.	2 D + 8 NU	MBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 200 Webro Road			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC	CODE
os city Parsippany	06 STATE NJ	E 0	7 ZIP CODE 07054	05 CITY	06	STATE	07 ZIP CO	ODE
Bucks County Industrial Development Authority		02 D	+ B NUMBER	01 NAME N/A		0.	2 D + 8 NU	MBER
03 STREET ADDRESS (P O. BOX, RFD #. etc.) Two East Court Street			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC	CODE
oscity Doylestown	06 STATE PA	E O	17 ZIP CODE 18901	05 CITY	00	STATE	07 ZIP CI	ODE
Sun Chemical Corporation		02 D	+ 8 NUMBER	01 NAME N/A		0	2 D + 8 NU	MBER
03 STREET ADDRESS (P.O. BOX, MO &, MC.) 200 Park Avenue			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SI	C CODE
05 CITY	06 STAT	E O	T ZIP CODE	OS CITY	0	STATE	07 ZIP C	00£

Techlaw Potentiälly Responsible Party Search. August 21, 1987.

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#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 7 - OWNER INFORMATION ORDER:

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II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
II NAME		02 D + 8 NUMBER		08 NAME N/A		09 D + 8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
05 CITY	06 STATE	0	7 ZIP CODE	12 CITY	13 STATE	14	ZIP CODE
01 NAME			+ B NUMBER	08 NAME N/A		09 D + B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
05 CITY	06 STATE	0	7 ZIP CODE	12 CITY	13 STATE	14	ZIP CODE
01 NAME -		02 D	+ B NUMBER	08 NAME N/A	C	09 D +	B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	0	7 ZIP CODE	12 CITY	13 STATE	14	ZIP CODE
01 NAME			+ B NUMBER	08 NAME N/A		09 D + 8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
05 CITY	06 STATE	0	7 ZIP CODE	12 CITY	13 STATE	14	I ZIP CODE
							+)
III. PREVIOUS OWNER(S) (list most recent fi	irst)			IV. REALTY OWNER(S) (if applicable, list m	ost recent	t firs	
III. PREVIOUS OWNER(S) (list most recent for 01 NAME Kollsman, Motor, Corporation	irst)	02 D	+ B NUMBER	IV. REALTY OWNER(S) (if applicable, list m 01 NAME N/A	ost recent	t firs 02 D +	· B NUMBER
III. PRŁVIOUS OWNER(S) (list most recent filling of the second	irst)	02 D	+ B NUMBER	IV. REALTY OWNER(S) (if applicable, list m 01 NAME N/A 03 STREET ADDRESS (P.O. Box, RFD #, etc.)	ost recent	t firs 02 D +	- B NUMBER
III. PRE VIOUS OWNER(S) (list most recent fill 01 NAME Kollsman Motor Corporation 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 120. Mill Street 05 CITY Dublin	o6 state	02 D	+ B NUMBER 04 SIC CODE 17 ZIP CODE 18917	IV. REALTY OWNER(S) (if applicable, list m 01 NAME N/A 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 05 CITY	OST RECENT	t firs	- B NUMBER 04 SIC CODE ZIP CODE
III. PRE VIOUS OWNER(S) (list most recent fill 01 NAME Kollsman Motor Corporation 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 120 Mill Street 05 CITY Dublin 01 NAME Home Window Company of Pennsy	o6 state PA	02 D 02 D	+ B NUMBER 04 SIC CODE 17 ZIP CODE 18917 + B NUMBER	IV. REALTY OWNER(S) (if applicable, list m 01 NAME N/A 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 05 CITY 01 NAME N/A	OST RECENT	02 D +	04 SIC CODE ZIP CODE • B NUMBER
III. PR& VIOUS OWNER(S) (list most recent fr 01 NAME Kollsman Motor Corporation 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 120 Mill Street 05 CITY Dublin 01 NAME Home Window Company of Pennsy 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 16 Susquehanna Avenue	06 state PA Ivania	02 D 02 D	+ B NUMBER 04 SIC CODE 7 ZIP CODE 18917 + B NUMBER 04 SIC CODE	IV. REALTY OWNER(S) (if applicable, list m 01 NAME N/A 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 05 CITY 01 NAME N/A 03 STREET ADDRESS (P.O. Box, RFD #, etc.)	OST RECENT	02 D +	B NUMBER      O4 SIC CODE      ZIP CODE      B NUMBER      O4 SIC CODE
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#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - OPERATOR INFORMATION

I. ILLEN LIPT.	HUER I IF YOM I YON								
01 STATE	02 SITE NUMBER								
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Laboratory Testing, Incorporated		ed	Z D + U NUMBER		11 D + S NUMBER	
03 STREET ADDRESS (P.O. Box, NO) P.O. Box 249			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
os city Dublin		og state PA	07 ZIP CODE 18917	14 CITY	15 STATE	16 ZIF CODE
os years of operation 5/86 to present	09 NAME OF OWN	ER				
III. PREVIOUS OPERATOR(S) (Lis	t most recent first; provi	de only if diff	erent fram awner)	PREVIOUS OPERATORS' PARENT	COMPANIES (if ap	olicable)
OINAME Dudley Sports		02	2 D + 8 NUMBER	10 NAME Athlone Industries		11 D + 8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 120 Mill Street			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.) 200 Webro Road	13 SIC CODE	
os city Dublin		06 STATE PA	07 ZIP CODE 18917	14 city Parsippany	15 STATE NJ	16 ZIP CODE 07054
18 YEARS OF OPERATION 09 NAME OF OWNER DURING THIS PERIOD 8/73 to 1986 A1 an Show						
01 NAME     02 D + 8 NUMBER       Sun Chemical Corporation     03 STREET ADDRESS (P O. Box, RFD #, etc.)       03 STREET ADDRESS (P O. Box, RFD #, etc.)     04 SIC CODE       200 Park Avenue     04 SIC CODE			10 NAME N/A	I D + 6 NUMBER		
			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
New York		06 STATE NY	07 ZIP CODE 10166	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 12/71 to 8/73	09 NAME OF OWN R.E. Davis	ER DURING TH	IS PERIOD			
01 NAME 02 D + B NUMBER Kollsman Motor Corporation			10 NAME Standard Kollsman Industries, Inc.			
03 STREET ADDRESS (P O Box, RFD # etc.) 120 Mill Street			12 STREET ADDRESS (P O Box, RFD #, etc.) unknown	13 SIC CODE		
os city Dublin		06 STATE PA	07 ZIP CODE 18917	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWN	ER DURING TH	IS PERIOD			

Techlaw Potentially Responsible Party Search. August 21, 1987.

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# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

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¢, etc.)	02 0	+ B NUMBER					
f, etc.)			10 NAME N/A			11 D + B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE 12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE	
06 ST	TATE	07 ZIP CODE	14 CITY	15 STATE	1	6 ZIP CODE	
09 NAME OF OWNER		<u></u>		.1			
III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)			PREVIOUS OPERATORS' PARENT COMPA	NIES (if ap	oplic	abl <b>e)</b>	
v of Pennsylvani	02 0	) + B NUMBER	10 NAME N/A		11 D + 8 NUMBER		
γ <u>01 Pennsyrvan</u> #,etc.) 1Ue		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	TREET ADDRESS (P.O. Box, RFD #, etc.)			
06 S	TATE PA	07 ZIP CODE 19446	14 CITY	15 STATE	1	6 ZIP CODE	
09 NAME OF OWNER DU	RING THIS	PERIOD			L		
ls	02 (	) + B NUMBER	10 NAME N/A		11 D	+ 8 NUMBER	
#, etc.)	<b>I</b>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE	
06 5	TATE	07 ZIP CODE	14 CITY	15 STATE	1	6 ZIP CODE	
09 NAME OF OWNER DU	en is en Nevelation Nevelation	PERIOD Corporation		<b>I</b>			
	02 (	D + B NUMBER	10 NAME N/A		110	+ B NUMBER	
#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE		
06 S	TATE	07 ZIP CODE	14 CITY	15 STATE	1	6 ZIP CODE	
09 NAME OF OWNER DU	RING THI	S PERIOD		<b></b>			
TION (Cite specific refere	nces, e.g.	, state files, sample ana	lysis, reports)				
rResponsible Par	ty Sea	rch. August	21, 1987.	AR	10	0818	
	st recent first; provide onl y of Pennsylvani #, etc.) 1UE 09 NAME OF OWNER DUI 1S #, etc.) 09 NAME OF OWNER DUI A Pennsy? #, etc.) 06 S 09 NAME OF OWNER DU A Pennsy? #, etc.) 06 S	st recent first; provide only if differ y of Pennsylvania () etc.) 1UE 06 STATE PA 09 NAME OF OWNER DURING THIS 02 C 03 STATE 09 NAME OF OWNER DURING THIS 02 C 1 S *, etc.) 06 STATE 09 NAME OF OWNER DURING THIS 100 STATE 09 NAME OF OWNER DURING THIS 110N (Cite specific references, e.g. 110N (Cite specific references, e.g. 110N (Cite specific references, e.g.	st recent first; provide only if different from owner) v of Pennsylvania e.etc.) 102 D + B NUMBER 04 SIC CODE 19446 09 NAME OF OWNER DURING THIS PERIOD 02 D + B NUMBER 15 e.etc.) 04 SIC CODE 03 NAME OF OWNER DUR OF OF PERIOD A Pennsy? - Corporation 02 D + B NUMBER 12 04 SIC CODE 04 SIC CODE 05 STATE 04 SIC CODE 04 SIC CODE 05 STATE 04 SIC CODE 05 STATE 07 ZIP CODE 09 NAME OF OWNER DURING THIS PERIOD 11 ON (Cite specific references, e.g., state files, sample and v Responsible Party Search. August	At recent first; provide only if different from owner)           PREVIOUS OPERATORS' PARENT COMPANIAL           0 f Ponnsylvania         02 D + 8 NUMBER         NVA           0 e Strate         07 ZIP CODE         12 STREET ADDRESS (P.O. Box, RED #, etc.)           0 B STATE         07 ZIP CODE         14 CTY           0 9 NAME OF OWNER DURING THIS PERIOD         10 NAME         NVA           15         02 D + 8 NUMBER         10 NAME           ecc.)         04 SIC CODE         12 STREET ADDRESS (P.O. Box, RED #, etc.)           08 STATE         07 ZIP CODE         14 CTY           08 STATE         07 ZIP CODE         14 CTY           08 STATE         07 ZIP CODE         14 CTY           08 NAME OF OWNER DUR ~ PERIOD         14 CTY           08 STATE         07 ZIP CODE         14 CTY           09 NAME OF OWNER DUR ~ PERIOD         10 NAME           02 D + 8 NUMBER         10 NAME           04 SIC CODE         12 STREET ADDRESS (P O. Box, RED #, etc.)           08 STATE         07 ZIP CODE         14 CTY           09 NAME OF OWNER DURING THIS PERIOD         10 NAME           09 NAME OF OWNER DURING THIS PERIOD         14 CTY           09 NAME OF OWNER DURING THIS PERIOD         14 CTY           09 NAME OF OWNER DURING THIS PERIOD	At recent first; growde only if different from owner)  At recent first; growde only if different first; growde from owner)  At recent first; growde only if different first; growd	At recent first: provide only if different from owner) PREVIOUS OPERATORS' PARENT COMPANIES (if a pplic) (of Pennsylvania 02 - * NUMBER 10 NAME (* etc.) 04 SiC CODE 12 STREET ADDRESS (P.O. Box, RFD #, etc.) 10 05 NAME OF OWNER DURING THIS PERIOD 11 07 20 - * NUMBER 10 NAME 11 0 08 STATE 07 ZIP CODE 14 CITY 15 STATE 1 09 NAME OF OWNER DUR 10 NAME 10 NAME 11 0 10 NAME 10 NAME 10 NAME 11 0 10 NAME 11 0 10 NAME 10	

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