SHREWSBURY BOROUGH
YORK COUNTY, PENNSYLVANIA

ORDINANCE NO. 2022-03

AN AMENDED AND RESTATED ORDINANCE OF SHREWSBURY BOROUGH, YORK COUNTY, PENNSYLVANIA, ESTABLISHING A WELLHEAD PROTECTION OVERLAY DISTRICT, PROVIDING FOR THE REGULATION OF LAND USES WITHIN SUCH OVERLAY DISTRICT FOR THE PURPOSE OF PROTECTING GROUNDWATER SUPPLIES, PROVIDING FOR REPORTING REQUIREMENTS FOR CERTAIN REGULATED LAND USES WITHIN THE WELLHEAD PROTECTION OVERLAY DISTRICT, AND ESTABLISHING THE MEANS FOR ENFORCEMENT OF THE ORDINANCE.

WHEREAS, Section 1428 of the Federal Safe Drinking Water Act Amendments of 1987 requires that each state develop a program to protect wellhead areas of public water supplies; and

WHEREAS, the Pennsylvania Department of Environmental Protection (PA DEP) has developed a wellhead protection program, which provides that local governments have the responsibility for developing programs including regulations and management controls to protect public water supplies from contamination; and

WHEREAS, the groundwater underlying the community water supply wellhead protection area is the sole source of Shrewsbury Borough's existing and future water supply, including drinking water; and

WHEREAS, the groundwater systems supplying the community water supply wellhead protection areas with groundwater are integrally connected with numerous surface waters and streams; and

WHEREAS, accidental spills and discharges of toxic and regulated substances can threaten the quality of such water supplies, posing public health and safety hazards; and

WHEREAS, unless preventive measures are adopted to control the discharge and storage of toxic and regulated substances within the community water supply wellhead protection areas, further spills and discharges of such materials will predictably occur and with greater frequency and degree of hazard by reason of increasing land development, population and vehicular traffic within the wellhead protection area; and

WHEREAS, unrestrained land development patterns can deplete the available groundwater supply through excess demand, threaten its quality through wastewater pollution, and inhibit the recharge capability of the area through exorbitant impervious areas and competing resource utilization; and

WHEREAS, Shrewsbury Borough (the "Borough") adopted Ordinance No. 2002-3 on July 10, 2002 establishing a wellhead protection overlay district, providing for the regulation of land uses within such overlay district for the purpose of protecting groundwater supplies, providing for reporting requirements for certain regulated land uses within the wellhead protection overlay district, and establishing the means for enforcement of the ordinance; and

WHEREAS, on January 4, 2010, the Borough repealed Ordinance No. 2002-3 and adopted Ordinance No. 2010-1, Amending and Restating the Ordinance of Shrewsbury Borough establishing a wellhead protection overlay district, providing for the regulation of land uses within such overlay district for the purpose of protecting groundwater supplies, providing for reporting requirements for certain regulated land uses within the wellhead protection overlay district, and establishing the means for enforcement of the ordinance (the " Wellhead Protection Ordinance"); and

WHEREAS, as the Wellhead Protection Ordinance has been enforced and uses have presented to Borough, further analysis has been undertaken with regard to the classification of such uses and how such uses impact the applicability of the Schedule of Regulated Land Uses of Exhibit "B" of the Ordinance; and

WHEREAS, the Borough now desires to amend and restate the Wellhead Protection Ordinance by adding further clarification.

NOW THEREFORE, be it enacted and ordained and it is hereby enacted and ordained by the Borough Council of Shrewsbury Borough as follows:

SECTION 1. PURPOSE AND INTENT: AUTHORITY

(a) The purpose of this Wellhead Protection Ordinance is to protect the public health, safety and welfare through the preservation of the groundwater resources of the Borough public water supplies and to ensure a future supply of safe and healthful drinking water for the residents of the Borough. The designation of the Wellhead Protection Overlay District, as provided herein, and the regulation of activities within such Wellhead Protection Overlay District will reduce the potential for ground and surface water contamination and overuse and thereby preserve irreplaceable groundwater resources. The delineation of the Wellhead Protection Overlay District and the development of the provisions of this Wellhead Protection Ordinance are based upon a professional study of land uses hydrology, hydrogeolic and other elements of the area in which Borough water supplies are situated.

(b) This Wellhead Protection Ordinance is enacted pursuant to the authority contained in the Constitution of the Commonwealth of Pennsylvania and the Borough Code, 53 P.S. § 46201 *et seq.*, as amended, which provisions authorize the Borough to enact ordinances regulating (i) health, safety, morals, general welfare and cleanliness and the beauty, convenience, comfort and safety of the borough and (ii) to provide a supply of water and to make regulations for the protection of the pipes, reservoirs and other constructions or apparatus, and the Pennsylvania Municipalities Planning Code, Act 247 of 1968, as amended, which provisions authorize the Borough to enact ordinances regulating development and land uses to (i) ensure the public health and safety, (ii) provide a safe, reliable and adequate water supply, and (iii) preserve natural values and aquifers.

(c) It shall be the responsibility of any person owning real property and/or

owning or operating a business within the Borough of Shrewsbury to make a determination of the applicability of the Wellhead Protection Overlay District as it pertains to the property and/or business under his/her ownership or operation, and his/her failure to do so shall not excuse any violations of said sections.

SECTION 2. ESTABLISHMENT AND DELINEATION OF WELLHEAD PROTECTION OVERLAY DISTRICT AND WELLHEAD PROTECTION ZONES

The "**Wellhead Protection Overlay District**" shall be defined as that area within the corporate boundaries of the Borough as is set forth on the map attached hereto, marked as Exhibit "A" and incorporated herein by reference thereto. Within the Wellhead Protection Overlay District, the following Wellhead Protection Zones are hereby established:

(a) Zone 1 shall be that area marked on Exhibit "A" as Zone 1, which Zone 1 represents a protective zone immediately surrounding a community water supply well, which shall be a radial distance calculated on the basis of the specific characteristic of the respective well.

(b) Zone 2 shall be that area marked on Exhibit "A" as Zone 2, which Zone 2 represents an area determined to be the Zone of groundwater contribution to the well, and

(c) Zone 3 shall be that area marked on Exhibit "A" as Zone 3, which Zone 3 represents the area that directly contributes surface and groundwater to Zone 2.

Where the boundary of any Zone divides any property, the entire property shall be considered to lie within the Zone offering the highest degree of protection to groundwater resources. Should any person challenge the boundary of Zones 1, 2 or 3, it shall be the responsibility of that person to retain a Licensed Professional Geologist with competence in the field of hydrogeology to determine the precise boundary of the disputed area. Upon receipt of

the determination, the final boundary to be used will be determined by the Borough with assistance from the Borough's Licensed Professional Geologist, as appropriate.

SECTION 3. REGULATED LAND USES

Within the Wellhead Protection Overlay District, land uses shall be regulated as follows:

(a) Lots and tracts of land located within the Wellhead Protection Overlay District, as delineated on Exhibit "A", shall be governed by the restrictions applicable to the Wellhead Protection Zone in which such lots and tracts of land are located.

(b) Certain land uses within the Wellhead Protection Overlay District shall be regulated (hereinafter "**Regulated Land Uses**") according to the Schedule of Regulated Land Uses attached hereto, marked Exhibit "B" and incorporated herein by reference. When evaluating a use pursuant to Exhibit B, and if such use may be considered to be within more than one Regulated Land Use category, such use shall be deemed to be the Regulated Land Use subject to greater restriction in order to further the purposes above.

(c) Certain particular Regulated Land Uses shall be prohibited, permitted only by Special Exception or permitted subject to certain conditions, within Zone 2 or Zone 3 as applicable, as set forth in the Schedule of Regulated Land Uses.

(d) The following uses are prohibited within the Shrewsbury Borough Wellhead Protection Overlay District:

1) Manufacturing and production of hazardous materials, excluding production for on-site usage only. These materials include any hazardous substance or hazardous waste as listed in the following federal regulations:

(a) Superfund Amendments and Reauthorization Act (SARA) of 1986, Section 302 Extremely Hazardous Substances List (40 C.F.R. 300, App A and B);

(b) Comprehensive Environmental Response Compensation and Liability Act Superfund (CERCLA) of 1980, Hazardous Substance List (40 C.F.R. 302, Table 302.4);

(c) SARA of 1986, Section 313, Toxic Chemical List (40 C.F.R. Section 372.45); and

(d) Resource Conservation and Recovery Act (RCRA) of 1976 and 1984 Amendments, Hazardous Wastes Lists (P and Y Categories) (40 C.F.R. Section 261.33 (e) and (f). **Note**: The lists referenced in Section B.1a, are summarized in the Title III List of Lists – Chemicals Subject to Reporting Under Title III of the Superfund Amendments and Reauthorization Action (SARA) of 1986, published July 1987, U.S. EPA

2) Nuclear or radioactive materials or wastes.

3) Wood-preserving operations using formulations of Chrome-Copper-Arsenate (CCC), pentachlorophenol (PENTA), and creosote and related chemicals;

4) Battery recycling and reprocessing;

5) Retail gas stations or truck stops;

6) Agricultural application of halogenated volatile liquid organic pesticides (e.g., ethylene dibromide (EDB) and dibromochloropropane (DBCP), related chemicals and their commercial formulations);

7) Processing, reprocessing, storage and disposal of PCB containing oils;

8) Manufacturing and production of paving, roofing, and other construction materials, using asphaltic- and petroleum-based coating and preserving materials; and

9) Primary and secondary metal industries that manufacture, produce, smelt or refine ferrous and non-ferrous metals.

10) **Use List Not Exhaustive**: The uses prohibited by this Wellhead Protection Overlay District represent the state of present knowledge and most common description of said uses. As other polluting uses are discovered, or other terms of description become necessary, it is the intention to add them to the list of uses prohibited. These lists may be supplemented by amendment to this Wellhead Protection Ordinance or by resolution. To screen for such other uses or terms for uses, no use shall be permitted in this district without first submitting its building, site, and operational plans to the Borough Wellhead Protection Committee for review and Borough Council approval under this Wellhead Protection Ordinance.

11) **Changing Technology**: The uses prohibited by this Wellhead Protection Overlay District are prohibited based upon the combined pollution experience of many individual uses, and the technology generally employed by that class of uses, which technology causes the uses as a class to be groundwater pollution risks. As the technology of identified use classes changes to non-risk materials or non-risk methods, a person may petition for such a use to be reevaluated under this ordinance. It shall be the responsibility of that person to retain a

Licensed Professional Geologist with competence in the field of hydrogeology and other professionals to provide sufficient data in support of such a petition. The petition shall be submitted to the Borough Wellhead Protection Committee for review. Thereafter, the petition shall be evaluated by the Borough Council with assistance from the Superintendent of Public Works, a Licensed Professional Geologist and/or other representatives of the Borough, as appropriate. If the person demonstrates clearly and convincingly that the use no longer presents a pollution hazard, it may be allowed by the Borough, but subject to any conditions that the Borough Council may attach to the use to further the purposes of this ordinance. All Borough fees or costs arising out of or related to the petition shall be reimbursed to the Borough from the person who filed it.

SECTION 4. REPORTING REQUIREMENTS

As to each lot or tract of land located within the Wellhead Protection Overlay District upon which there is conducted a Regulated Land Use, owner of record thereof shall submit, or cause to be submitted, to the Superintendent of Public Works or any representative designated by the Borough, the following records and information in the manner prescribed:

a) Facility Profile Sheet – Information to be submitted is as provided for on the Facility Profile Sheet, marked Exhibit "C" and incorporated herein by reference. The Facility Profile Sheet must be completed on the form provided by the Borough, and available at Borough Offices, within 90 days of the enactment of this Wellhead Protection Ordinance, and thereafter within 60 days of the biannual Wellhead Protection Ordinance anniversary date.

b) Copies of all federal, state and county operational approvals,

certificates, permits and applications, on-going environmental reports and monitoring results, relating to environmental, pollution control, hazardous substance and drinking water laws and regulations pertaining to such lot or tract of land, as and when required to be submitted to federal, state and county governments authorities.

c) In the event that any contaminants and/or substances regulated under federal, state or county environmental, pollution control, hazardous substance and drinking water laws and regulations are released on or from any lot or tract of land within the Wellhead Protection Overlay District, copies of any and all notices, reports and documents which such owner filed, or caused to be filed, with any federal, state and/or county governmental authorities which provide notice of or relate to such release, as when such notices, reports and documents are required to be filed with such governmental authorities; and

d) Copies of all notices, orders, rules, decisions, recommendations, enforcement actions and similar documentation, as and when received by or on behalf of such record owner or the occupant of any such lot or tract of land from any federal, state or county governmental authority in connection with the enforcement of environmental, pollution control, hazardous substance and drinking water laws and regulations.

SECTION 5. ADMINISTRATION

(a) The Borough's Superintendent of Public Works, or any representative designated by the Borough, is hereby designated as the Borough official responsible for the administration and enforcement of this Wellhead Protection Ordinance. The Zoning Hearing Board of the Borough shall hear appeals from the written determinations and orders of the Superintendent of Public Works regarding Applications, hereinafter defined, enforcement

notices, cease and desist orders and other matters, and shall also hear substantive and procedural challenges to the validity of this Wellhead Protection Ordinance. Prior to any proceeding before the Zoning Hearing Board, the matter must be presented to the Borough Wellhead Protection Committee for its review and recommendations.

(b) Uses of lots or tracts of land in existence on the date of enactment of this Wellhead Protection Ordinance which are Regulated Land Uses shall be deemed to be "**Non-Conforming Uses**" of land under the terms of this Wellhead Protection Ordinance. Such Non-Conforming Uses of land may be continued by the present or any subsequent owner as long as:

(1) Such use is and remains otherwise lawful and in compliance with all federal, state and county environmental, pollution control, hazardous substance and drinking water laws and regulations;

(2) Such Non-Conforming Use has not been and is not discontinued for a period of six (6) consecutive months;

(3) Such Non-Conforming Use is not, after the date of enactment of this Wellhead Protection Ordinance, materially altered, changed or expanded;

(4) The record owner of the lot or tract of land on which such Non-Conforming Use is located is in compliance with Section 4 of this Wellhead Protection Ordinance regarding reporting requirements;

(5) Such Non-Conforming Use is not an actual known source of groundwater contamination;

(6) A Facility Profile Summary is submitted to the Borough biannually as described under Section 4(a); and

(7) Such Non-Conforming Use shall upgrade its technology on a regular basis, as the technology required by applicable law is changed, or upon request of the Borough, in order to minimize the risks associated with such Non-Conforming Use to the community water resources. Such upgrades

shall be a necessary to support the right to continue with the Non-Conforming Use.

(c) A Regulated Land Use shall be deemed to be new, materially altered, changed or expanded if:

(1) The land use which constitutes the Regulated Land Use was not previously present and conducted upon the lot or tract of land in question;

(2) The production and/or storage capacity of the Regulated Land Use is increased;

(3) The types of any substances which give rise to the Regulated Land Use are changed;

(4) The number of types of substances which give rise to the Regulated Land Use are changed;

(5) The quantity of any substances which give rise to the Regulated Land Use is materially increased; or

(6) The land area subject to the Regulated Land Use is enlarged in any respect.

(d) Following the date of enactment of this Wellhead Protection Ordinance, Regulated Land Uses which are new or which constitute material changes, alterations or expansions of non-conforming Regulated Land Uses will be prohibited in accordance with the terms of section 3(c) above or Exhibit "B" annexed hereto, thereby prohibiting such Regulated Land Uses, or permitting such Regulated Land Uses only upon the granting of a Special Exception or subject to proof of compliance with certain conditions. Any Regulated Land Use which is permitted to be conducted within the Wellhead Protection Overlay District as a result of the granting of a Special Exception or subject to proof of compliance with certain conditions in accordance with the terms of this Wellhead Protection Ordinance shall not be deemed to be a non-conforming use of land under the

terms of this Wellhead Protection Ordinance, but shall without further action be considered a land use which is in conformity with the terms of this Wellhead Protection Ordinance.

(e) As to any new Regulated Land Use or any proposed alteration or expansion of a non-conforming Regulated Land Use, and as to which such Regulated Land Use is permitted within the applicable Wellhead Protection Zone subject to proof of compliance with certain conditions, the record owner or occupant shall submit to the Borough's Superintendent of Public Works written proof of compliance with all required conditions as listed here, and as set forth in Exhibit "B", including the following:

(1) Such Regulated Land Use is one which is specifically authorized as a permitted conditional use in the Wellhead Protection Zone in question, as set forth in Exhibit "B" ; and

(2) Such Regulated Land Use will not, during construction or thereafter, cause the degradation of the groundwater quality upon or beneath the lot or tract of land in question, or upon or beneath adjacent lots or tracts of land, the degree and extent of which degradation is or would be violative of safe drinking water standards promulgated by federal, state or county governmental authorities; and

(3) Satisfactory evidence has been provided to the Borough's Superintendent of Public Works that the proposed Regulated Land Use is in compliance with all federal, state and county laws and regulations applicable to such Regulated Land Use and the record owner or occupant has received all necessary approvals of federal, state and county governmental authorities for the conduct of such Regulated Land Use; and

(4) The installation of Borough-approved containment facilities and systems so as to prevent the contamination of groundwater by substances regulated by federal, state and/or county governmental authorities; and

(5) The preparation, filing (with the Borough) and periodic revision of an emergency plan addressing the means by which any potential contamination of groundwater will be controlled, collected and remediated, including emergency contacts and identification of potential contaminants; and

(6) Regular inspection and/or monitoring by the owner, occupant, the Superintendent of Public Works and/or third parties, of the Regulated Land Use area.

(f) As to any new Regulated Land Use or any proposed alteration or expansion of a non-conforming Regulated Land Use, and as to which such Regulated Land Use is permitted within the applicable Wellhead Protection Zone upon the granting of a Special Exception, such Special Exception shall only be granted upon the following conditions:

(1) Such Regulated Land Use is one which is specifically authorized as a Special Exception use in the Wellhead Protection Zone in question, as set forth in Exhibit "B" ; and

(2) Such Regulated Land Use will not, during construction or thereafter, cause the degradation of the groundwater quality upon or beneath the lot or tract of land in question, or upon or beneath adjacent lots or tracts of land, the degree and extent of which degradation is or would be violative of safe drinking water standards promulgated by federal, state or county governmental authorities; and

(3) Satisfactory evidence has been provided to the Borough's Superintendent of Public Works; or Zoning Hearing Board, as applicable, that the proposed Regulated Land Use is in compliance with all federal, state and county laws and regulations applicable to such Regulated Land Use and the record owner or occupant has received all necessary approvals of federal, state and county governmental authorities for the conduct of such Regulated Land Use.

(g) Application for a Special Exception shall be made to the Zoning Hearing

Board of the Borough in writing on such form as may be prescribed by the Borough and such application shall include, at a minimum, a detailed description of each of the activities to be conducted upon the lot or tract of land in question which constitute a Regulated Land Use, including a listing of all substances which are to be stored, handled, used or produced in connection with each Regulated Land Use being proposed and which substances are subject to regulation by federal, state and/or county governmental authorities, the "**Application**". The record owner or occupant of such lots or tracts of land requiring a Special Exception for a Regulated Land Use, the "**Applicant**" shall be responsible for submitting the Application.

(h) The Zoning Hearing Board of the Borough shall issue a written determination approving or disapproving the Application for a Special Exception, or conditioning the granting of the Special Exception upon adherence to any or all of the following requirements by the Applicant for the Special Exception, where the Zoning Hearing Board has found that such adherence is reasonably necessary to fulfill the groundwater protection purposes of this Wellhead Protection Ordinance:

1. The installation of Borough-approved containment facilities and systems so as to prevent the contamination of groundwater by substances regulated by federal, state and/or county governmental authorities.
2. The preparation, filing (with the Borough) and periodic revision of an emergency plan addressing the means by which any potential contamination of groundwater will be controlled, collected and remediated, including emergency contacts and identification of potential contaminants;
3. Regular inspection and/or monitoring by the owner, occupant, the Superintendent of Public Works and/or third parties, of the Regulated Land Use area;
4. Compliance by the Applicant with the provisions of the Borough Subdivision

and Land Development Ordinance then in effect pertaining to sanitary sewage disposal, water supply, storm water management and easements.

(i) A Facility Profile Summary is submitted to the Borough Biannually as described under Section 4(a).

(j) Other items that may be required to characterize environmental or physical conditions of the subject property.

(k) Applications to the Zoning Hearing Board of the Borough for a Special Exception under this Wellhead Protection Ordinance, as well as written determinations of the Superintendent of Public Works and appeals from the written determinations of the Superintendent of Public Works to the Borough Zoning Hearing Board and appeals to the courts of the Commonwealth of Pennsylvania, shall be subject to the same procedural (but not substantive) rules as are applicable to Applications for Special Exceptions under the terms of the Zoning Ordinance of the Borough in effect at the time the Application is filed.

SECTION 6. MAJOR SUBDIVISION AND LAND DEVELOPMENT PLANS

All major subdivision proposals and other proposed new development plans to be located within the Wellhead Protection Overlay District shall be reviewed by the Superintendent of Public Works and the Borough Planning Commission for compliance with the provisions of this Wellhead Protection Ordinance. It shall be the responsibility of the Superintendent of Public Works, and the Borough Planning Commission and Borough Wellhead Protection Committee to recommend approval, disapproval or approval with conditions or modifications, of the proposed subdivision or development plan, so as to assure compliance with the provisions of this Wellhead Protection Ordinance.

(a) Subdivisions and land developments within Wellhead Protection Zones 1, 2 or 3 for which storm water management controls are required pursuant to the Borough Subdivision and Land Development Ordinance shall be designed consistent with the following:

(1) Storm water retention basins shall be prohibited;

(2) Storm water detention basins shall be prohibited from Wellhead Protection Zone 1, and within Wellhead Protection Zone 2 shall be designed with an impermeable liner to prohibit the infiltration of impounded water to the subsurface.

(b) Subdivisions and land developments within Wellhead Protection Zones 1, 2 or 3 as mapped on Exhibit "A" shall have the following Preliminary Plan (as defined in the Borough Subdivision and Land Development Ordinance) requirements in addition to those requirements of the Borough Subdivision and Land Development Ordinance:

(1) A recognized Licensed Professional Geologist employed by the developer with competence in the field shall review aerial photographs, soils, geologic and other available related data as the data relates to the subject property. The Licensed Professional Geologist shall also conduct a site inspection of the property and submit a report of the site to the Borough.

(2) Based on the work required in Section 6(b)(1), the Licensed Professional Geologist shall prepare a map not less than scale, 1" = 100 ft. of the site showing all topographic, geologic and other pertinent physical features. The mapping shall indicate, but shall not be limited to, the following:

(A) Closed depressions;

(B) Seasonal high water table indicators;

(C) Outcrops of bedrock;

(D) Surface drainage into ground;

(E) Lineaments and faults;

(F) Quarries and mines;

(G) Oil, gas or water wells (active or abandoned);

(H) Geologic contacts;

(I) Springs, seeps or wetland areas;

(J) Distance and direction of nearest public or adjacent private water

supply well.

(3) Based on the work performed and submitted in Sections 6(b)(1) and 6(b)(2), the Borough shall determine what if any further testing should be done by the Applicant to ensure compliance with this Wellhead Protection Ordinance. Testing methodology shall be reasonable under the circumstances, including (i) the scale of the proposed development, and (ii) the hazards revealed by examination of available data and the site inspection.

(4) The Applicant shall cause the additional testing established in Section 6(b)(3) to be done. A study report shall be prepared and submitted from the Applicant's Licensed Professional Geologist and referred to the Borough Superintendent of Public Works. This study report shall include a map of the area, all test results and a recommendation on the mitigation measures to be taken.

(5) The Superintendent of Public Works shall report to the Borough Wellhead Protection Committee and Council, with a copy to the Applicant, their opinion as to the adequacy of the study report and as to the capability of the site to support the proposed development in a manner in which the risks attendant to the development in areas are either eliminated or minimized. Recommendations for site development including building location may be included. Additional studies or testing as deemed necessary by the Superintendent of Public Works or the Borough's Licensed Professional Geologist in order to produce an adequate study report given the scale of the proposed development and the hazards revealed, and the Applicant shall cause such necessary additional testing or studies to be done and submitted to the Borough.

SECTION 7. GENERAL EXCEPTIONS

The following General Exceptions specify those land uses and activities that are

permitted by right and do not require a Special Exception:

(a) Transit: The transportation of any hazardous or governmentally regulated substance through the Wellhead Protection Overlay District shall be exempt from provisions of this Wellhead Protection Ordinance, provided that the transporting vehicle is in transit through the Wellhead Protection Overlay District and further provided that such transportation is conducted in compliance with all applicable federal and state laws and regulations;

(b) Residential: To the extent otherwise permitted or regulated by federal, state and/or county statutes and regulations, the owners and/or occupiers of lots and tracts of land which are primarily utilized for the purpose of single or multi-family residential dwellings are permitted to utilize and store fuels, hazardous chemicals, pesticides, fertilizers, inflammable liquids and gases, and toxic and regulated substances in such quantities and in such manner as is associated with normal and responsible household use, and such limited utilization shall not be deemed a Regulated Land Use for the purpose of this Wellhead Protection Ordinance. This exception does not apply to underground liquid fuel storage tanks.

SECTION 8. PREVENTIVE AND ENFORCEMENT REMEDIES

For the purpose of preventing violations of this Wellhead Protection Ordinance and enforcing the provisions of this Wellhead Protection Ordinance, the Borough shall have available to it the same preventive and enforcement remedies, including the use of civil actions, as are set forth in the Zoning Ordinance of the Borough in effect from time to time. In addition, the Superintendent of Public Works of the Borough is authorized to issue cease and desist orders whenever the Superintendent of Public Works becomes aware of violations of this Wellhead Protection Ordinance. The Superintendent of Public Works is authorized to issue Enforcement Notices (as defined in the Zoning Ordinance of the Borough) with respect to violations of this Wellhead Protection Ordinance, such Enforcement Notices to be issued in accordance with the

Enforcement Notice provisions of the Zoning Ordinance of the Borough in effect from time to time. Finally, Shrewsbury Borough may seek equitable relief, including a temporary restraining order, preliminary and/or permanent injunction, to prevent any action that it reasonably believes may constitute irreparable harm to the Shrewsbury Borough water sources. Such equitable relief shall be obtained without posting a bond therefore. When invoking the preventative or enforcement remedies to this Wellhead Protection Ordinance, the Borough shall be entitled to recover all costs incurred, including, but not limited to, solicitor's and/or attorney's fees, costs of suit and inspection or investigation fees.

SECTION 9. FEES

The Borough Council shall, from time to time, establish by Resolution a schedule of fees, charges and expenses and collection procedures for Special Exceptions, costs of review and inspection, appeals and other matters pertaining to this Wellhead Protection Ordinance. The schedule of fees shall be available for inspection in the Municipal Office of the Borough. An Application will not be considered to be complete or approved until all applicable fees, charges and expenses have been paid in full. In addition to such fees, the Applicant or property owner shall pay any and all Borough costs or fees arising out of or related to this Wellhead Protection Ordinance and the administration or enforcement thereof.

SECTION 10. MISCELLANEOUS

(a) Conflicts: Whenever there is a difference between any of the minimum standards specified in this Wellhead Protection Ordinance and any standard included in any other ordinance, law or regulation of the Borough, the more stringent requirement shall apply. The provisions of this Wellhead Protection Ordinance shall be deemed to be supplementary and in addition to the provisions of the Zoning Ordinance and Subdivision and Land Development Ordinance of the Borough as each is in effect from time to time.

(b) Severability: If any sentence, clause, section, or part of this Wellhead Protection Ordinance is for any reason found to be unconstitutional, illegal or invalid, such unconstitutionality, illegality or invalidity shall not affect or impair any of the remaining provisions, sentences, clauses, sections or parts of this Wellhead Protection Ordinance. It is hereby declared as the intent of the Borough Council that this Wellhead Protection Ordinance would have been adopted had such unconstitutional, illegal or invalid sentence, clause, section or part thereof not have been included herein.

(c) Effective Date: This Wellhead Protection Ordinance shall become effective five (5) days after the date of its enactment as provided by law.

(d) Repealer: All prior Ordinances that are inconsistent herewith are hereby repealed to the extent of such inconsistency. This Wellhead Protection Ordinance amends and replaces Borough Ordinance 2010-1.

ENACTED AND ORDAINED this 11th day of May 2022, by the Borough Council of the Borough of Shrewsbury, in lawful session duly assembled.

Attest:

Cindy Bosley, Secretary

BOROUGH OF SHREWSBURY
YORK COUNTY, PENNSYLVANIA

By: _____
Ted Nadobny, President

Approved by the Mayor this 11th day of May 2022.

Michael G. Sharkey, Mayor

EXHIBIT A

Wellhead Protection Overlay District

Shrewsbury Borough
Wellhead Protection Areas

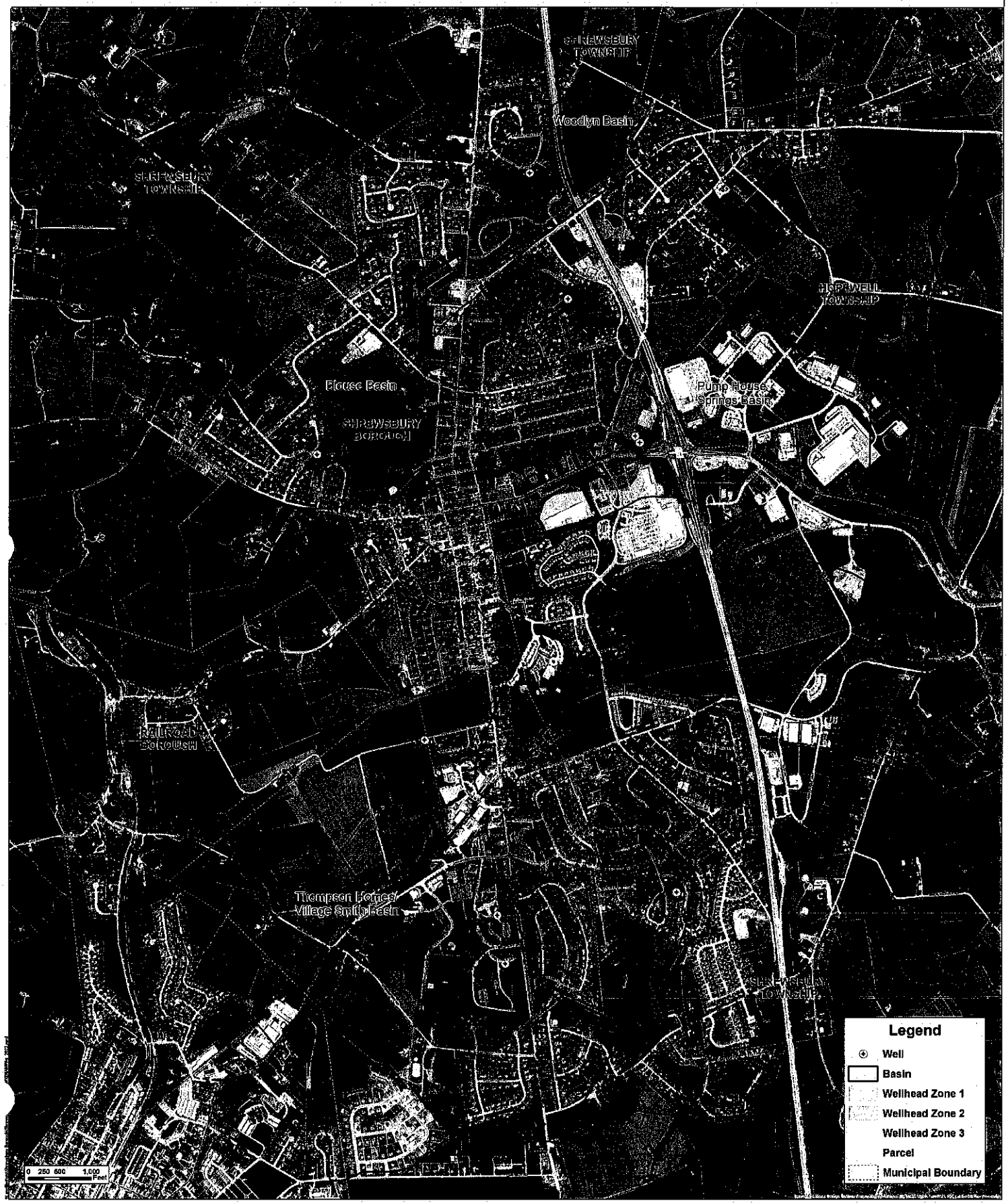
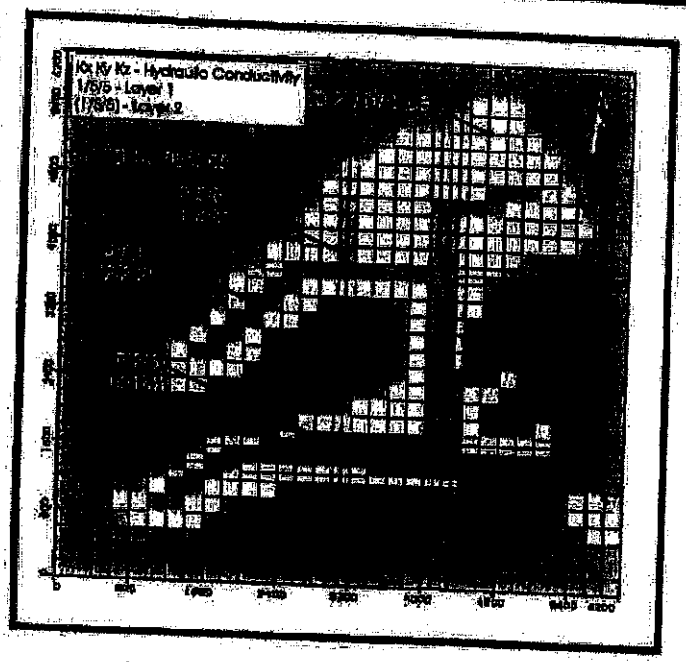
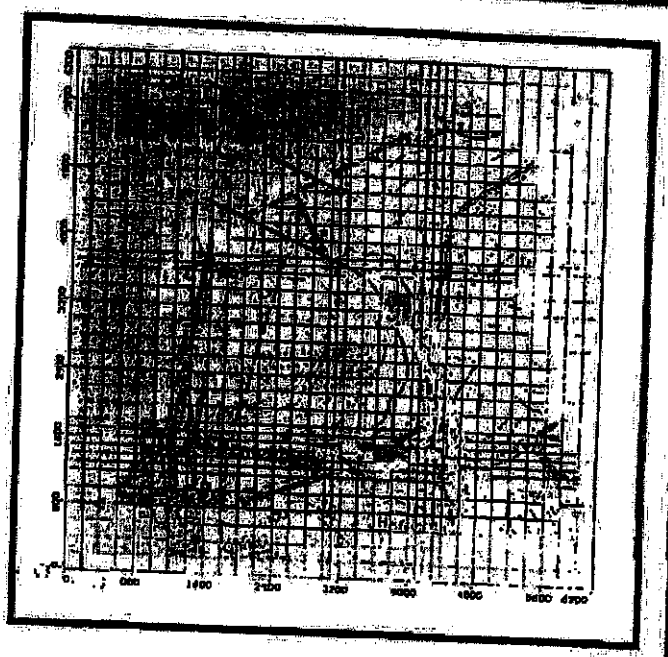


Figure 2-1



Layer 1 Hydraulic Conductivity Array

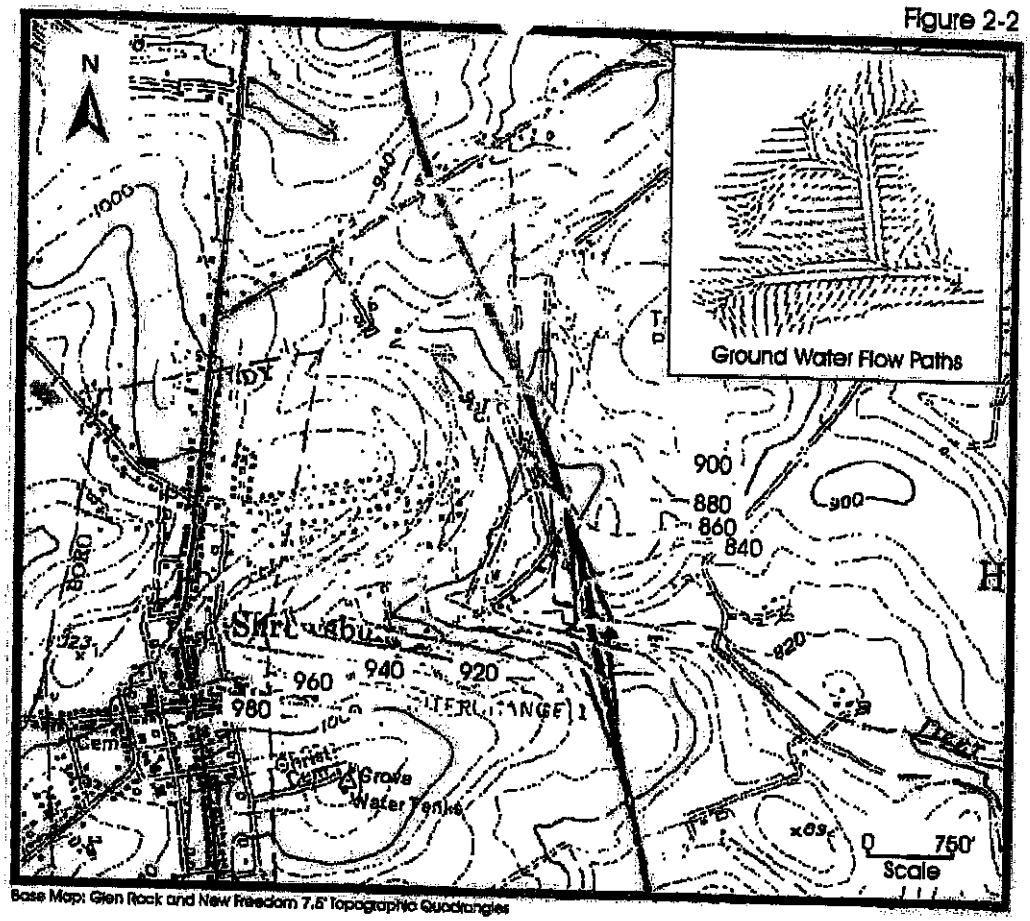


Sub-Basin Boundary Array

Pump House Springs Sub-Basin Model Arrays
Shrewsbury Well Head Protection Plan - Shrewsbury Pennsylvania

Exhibit A

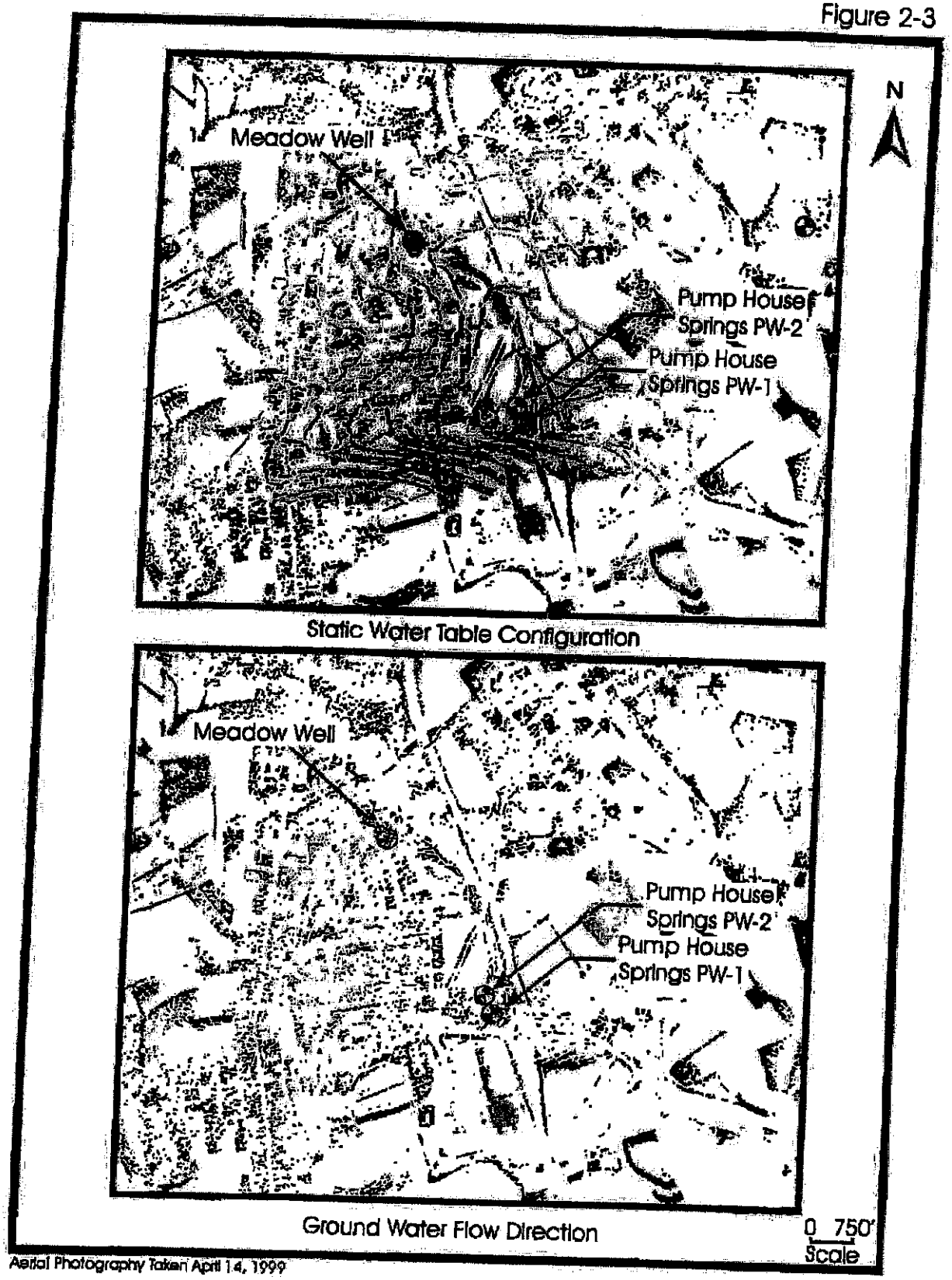
Figure 2-2



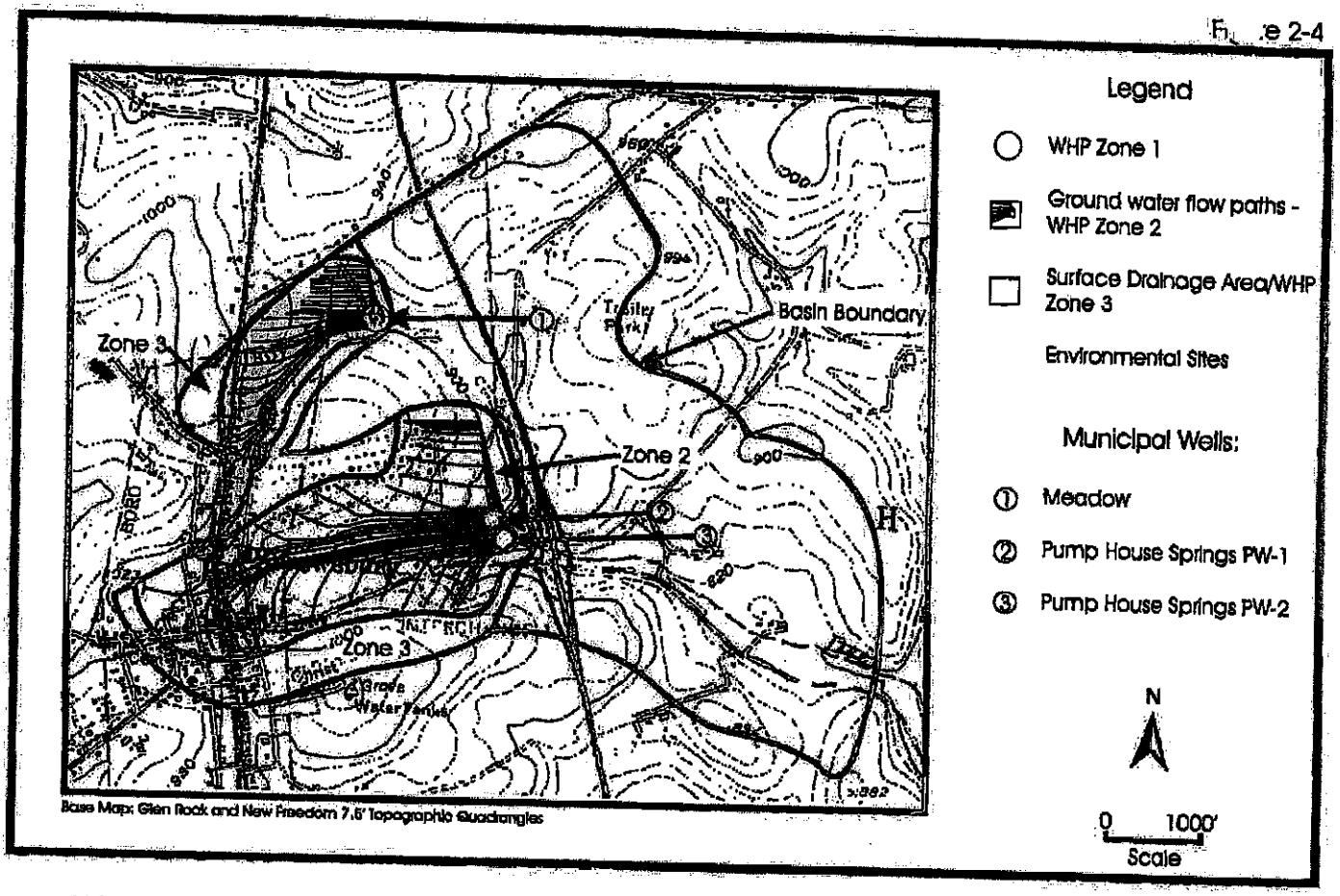
Base Map: Glen Rock and New Freedom 7.5' Topographic Quadrangles

Pump House Springs Basin Simulated Static Water Table Configuration
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figure 2-3

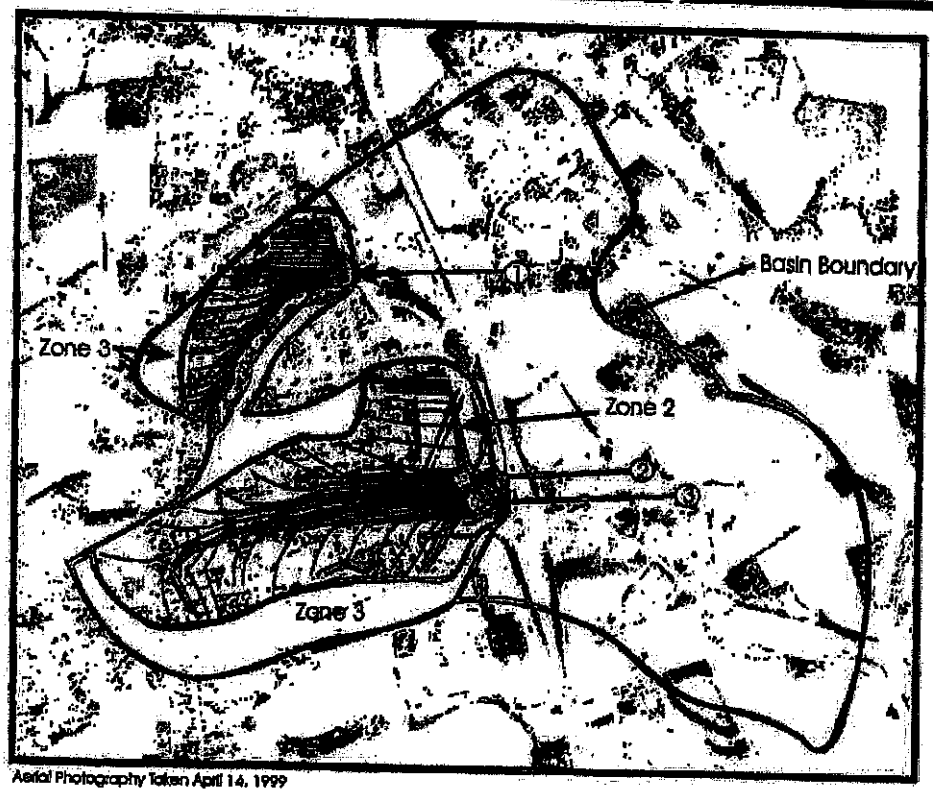


Pump House Springs Basin - Simulated Static Water Table Configuration
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania



Well Head Protection Zones (Topographic Map Base) - Pump House Springs Basin
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Fig 2-5



Legend

- WHP Zone 1
- Ground water flow paths - WHP Zone 2
- Surface Drainage Area/WHP Zone 3
- Environmental Sites

Municipal Wells:

① Meadow

② Pump House Springs PW-1

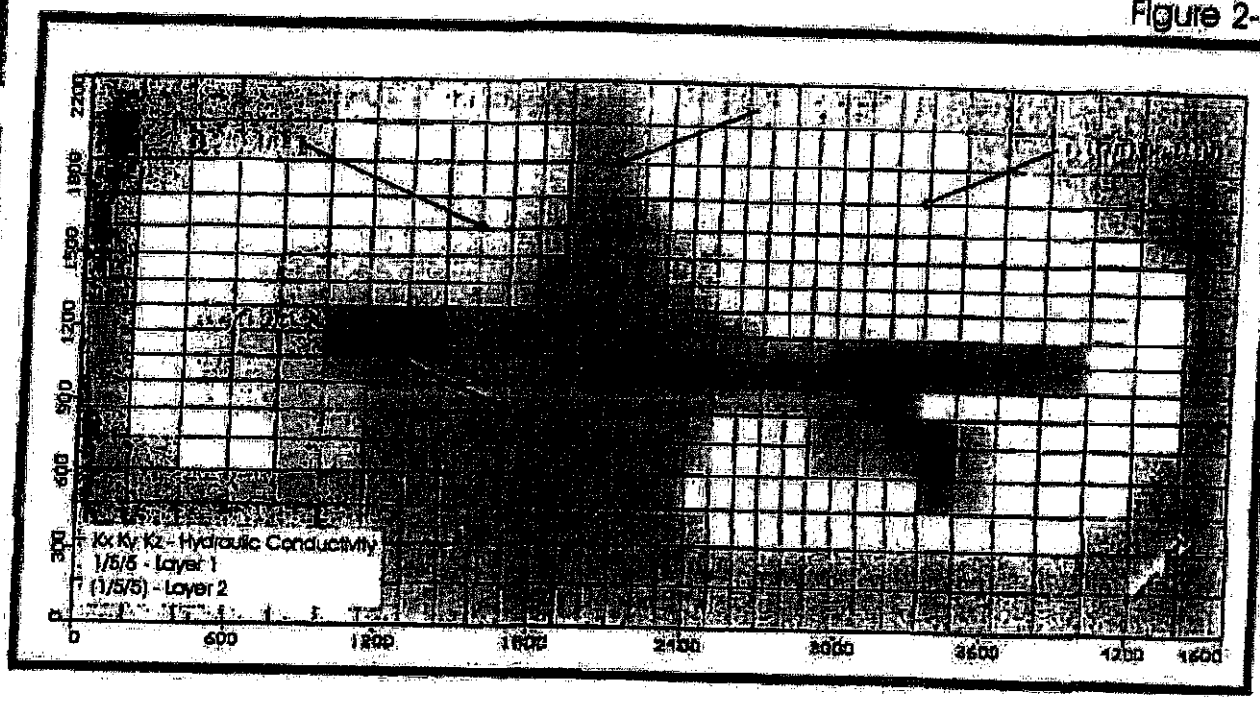
③ Pump House Springs PW-2

N

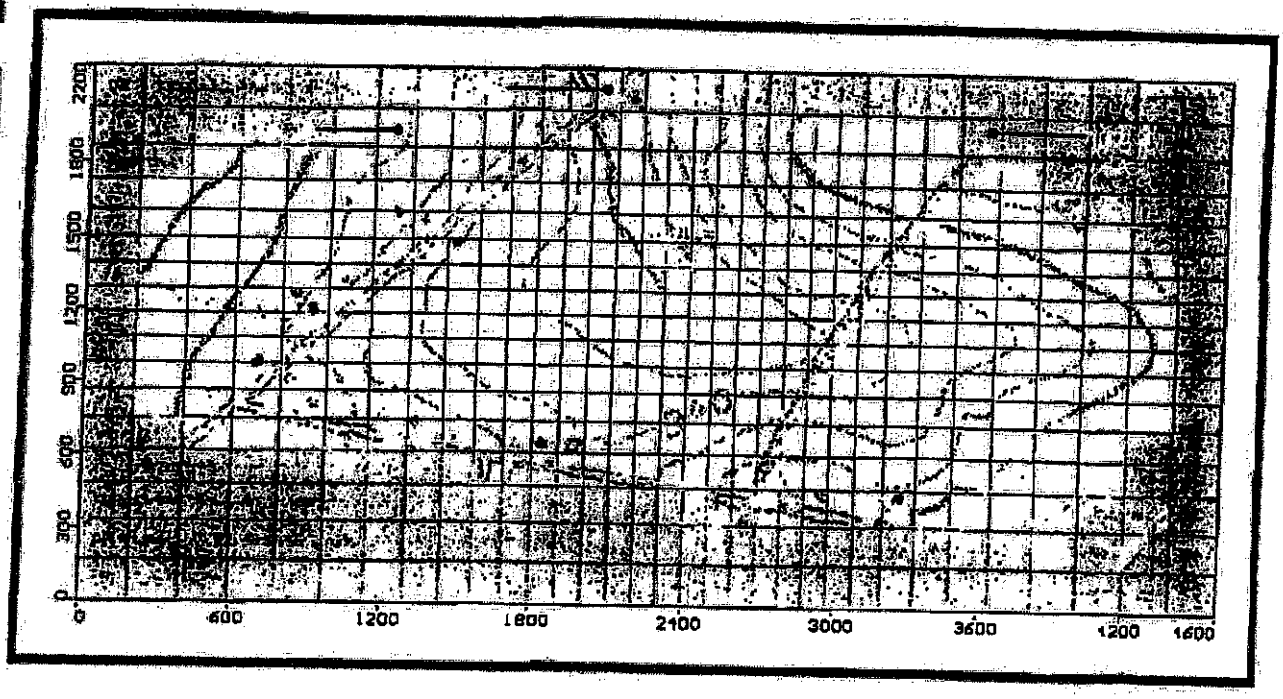
0 1000'
Scale

Well Head Protection Zones (Air Photo Base) - Pump House Springs Basin
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figure 2-6



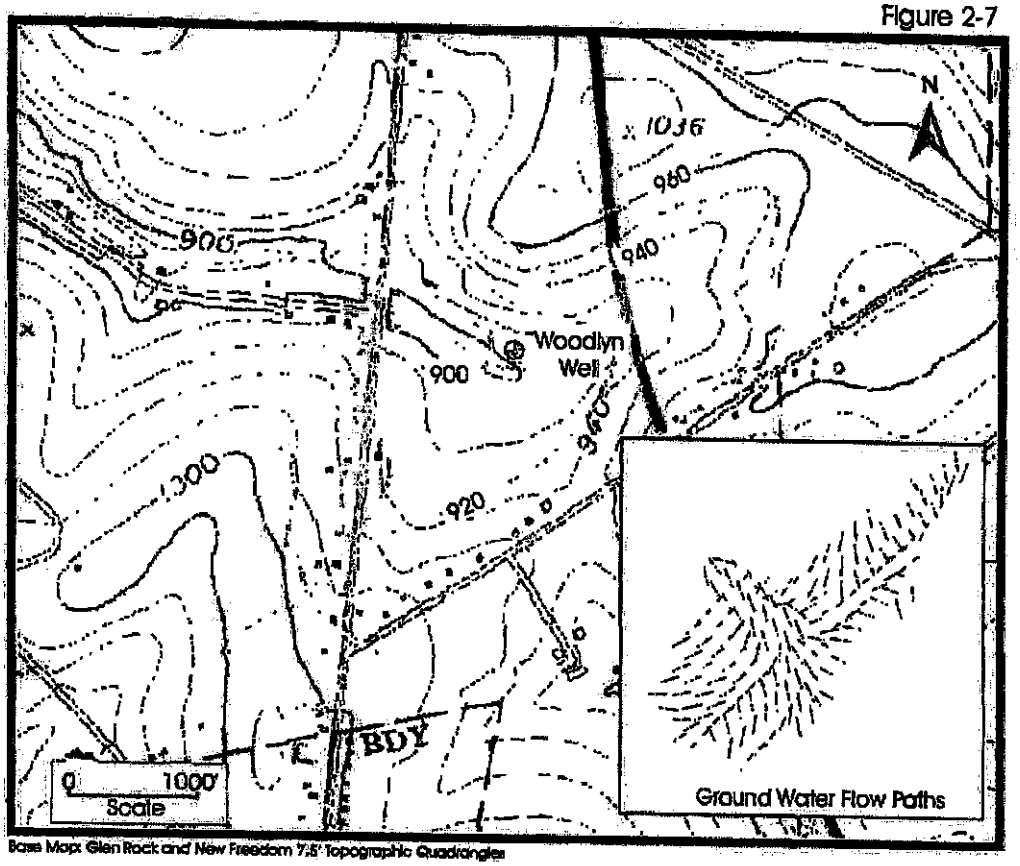
Layer 1 Hydraulic Conductivity Array



Sub-Basin Boundary Array

Woodlyn Sub-Basin Model Arrays
Shrewsbury Well Head Protection Plan - Shrewsbury Pennsylvania

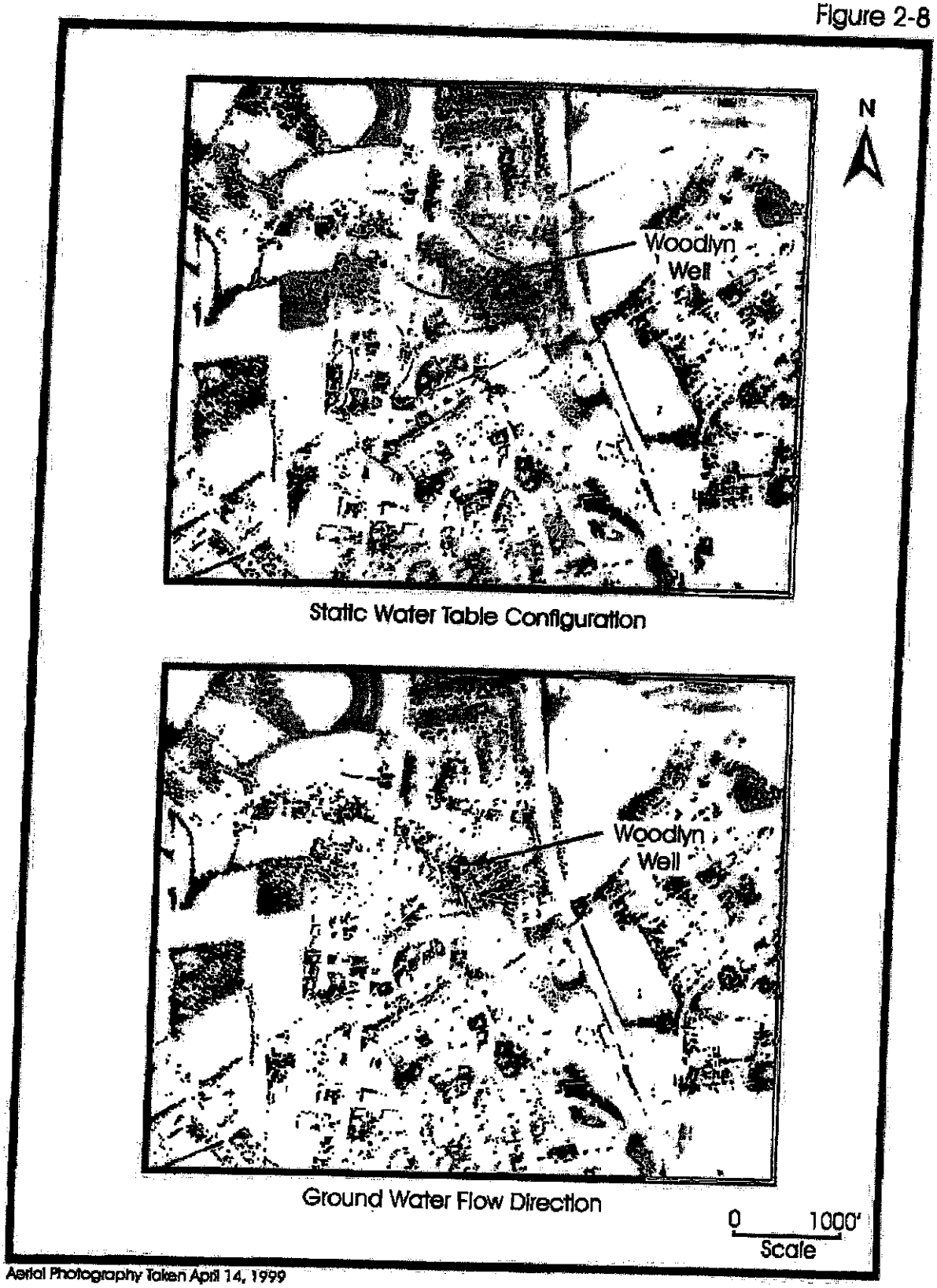
Figure 2-7



Base Maps: Glen Rock and New Freedom 7.5' Topographic Quadrangles

Woodlyn Basin Simulated Static Water Table Configuration
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

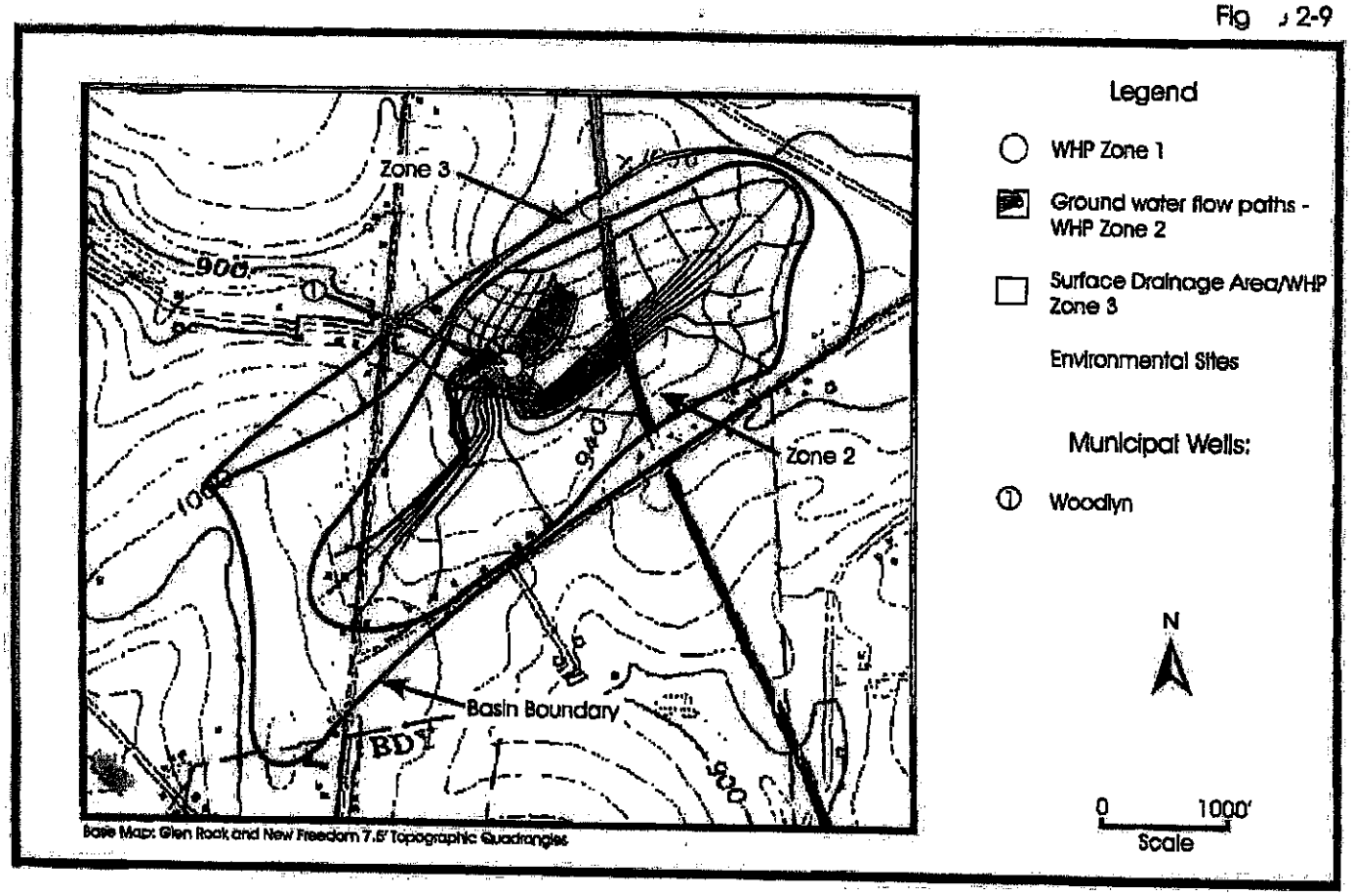
Figure 2-8



Aerial Photography Taken April 14, 1999

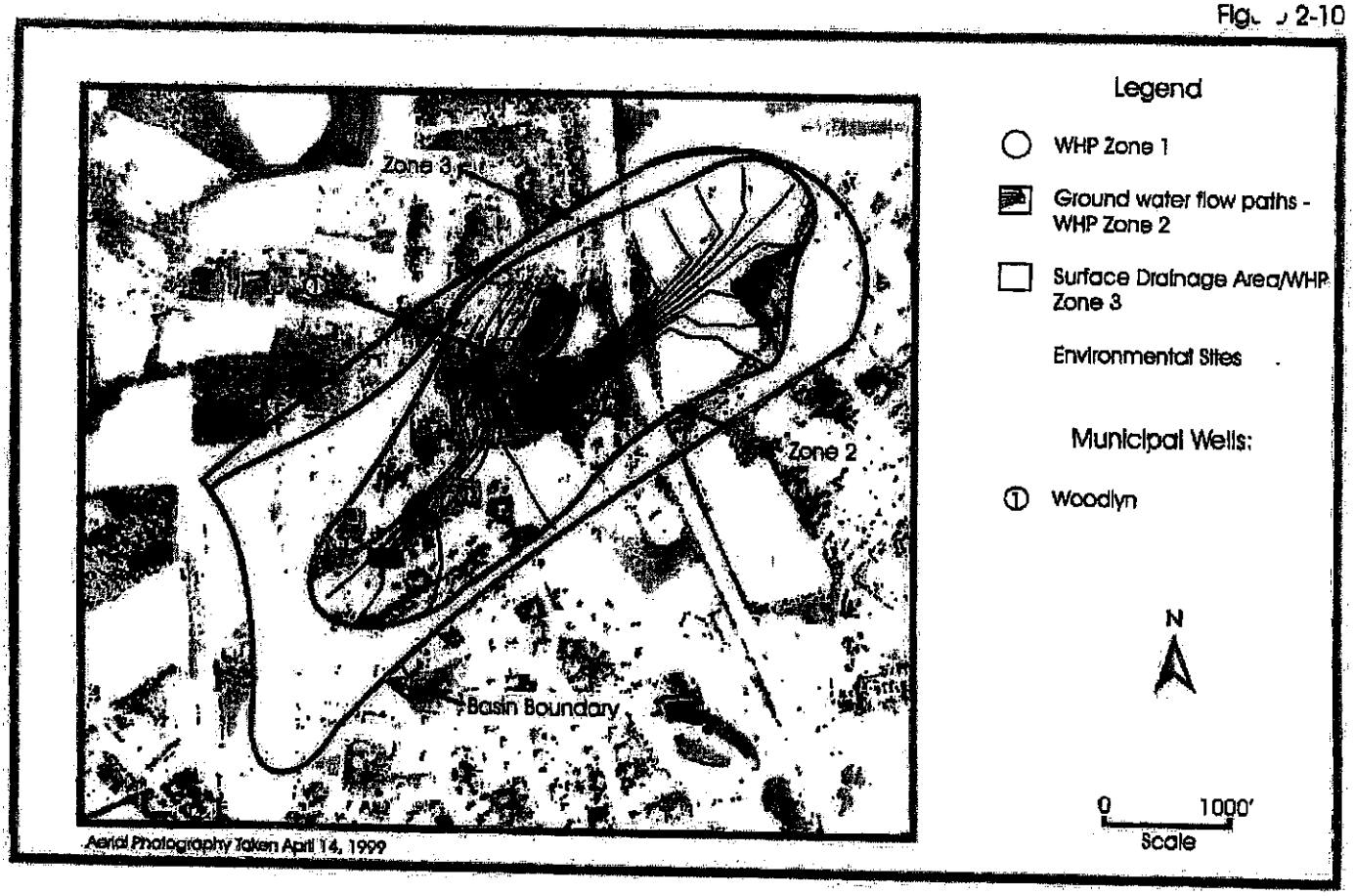
Woodlyn Basin Simulated Static Water Table Configuration
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Fig 2-9



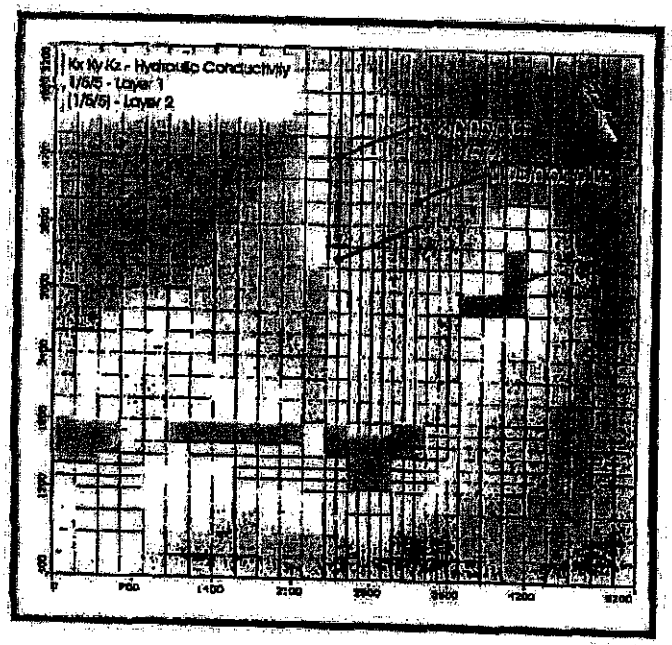
Well Head Protection Zones (Topographic Map Base) - Woodlyn Basin
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Fig. 2-10

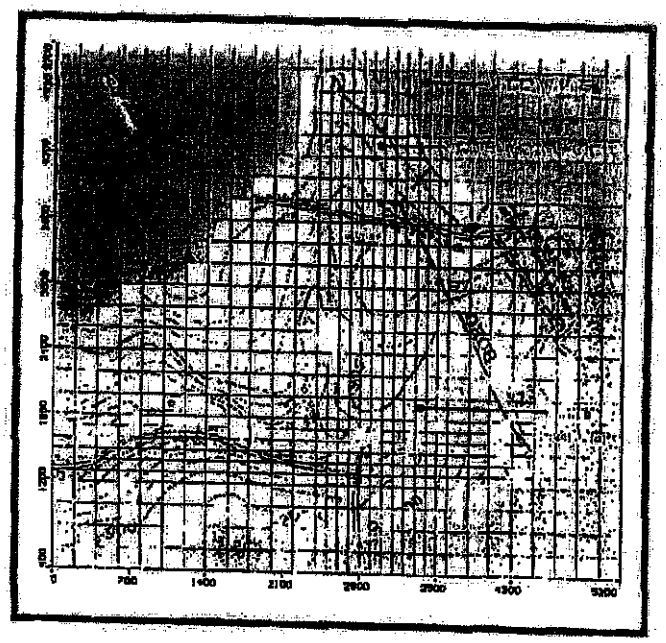


Well Head Protection Zones (Air Photo Base) - Woodlyn Basin
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figure 2-11



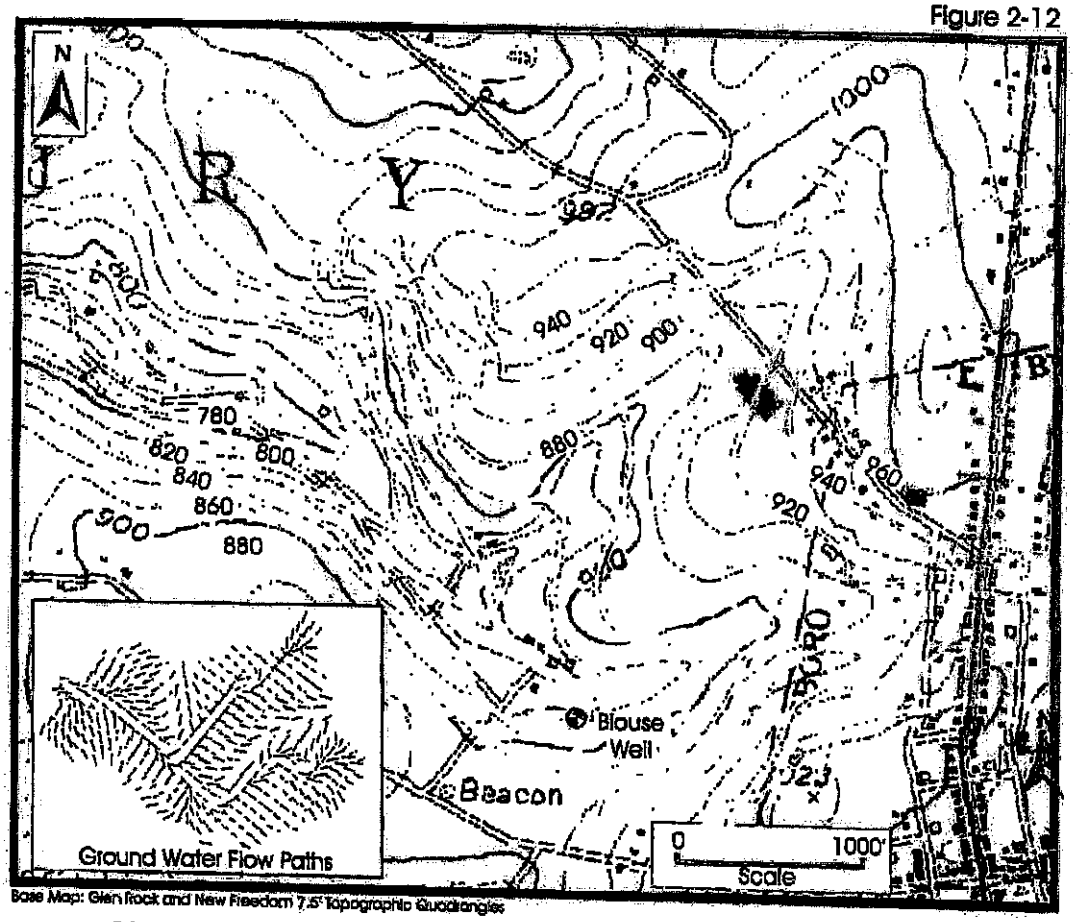
Layer 1 Hydraulic Conductivity Array



Sub-Basin Boundary Array

Blouse Sub-Basin Model Arrays
Shrewsbury Well Head Protection Plan - Shrewsbury Pennsylvania

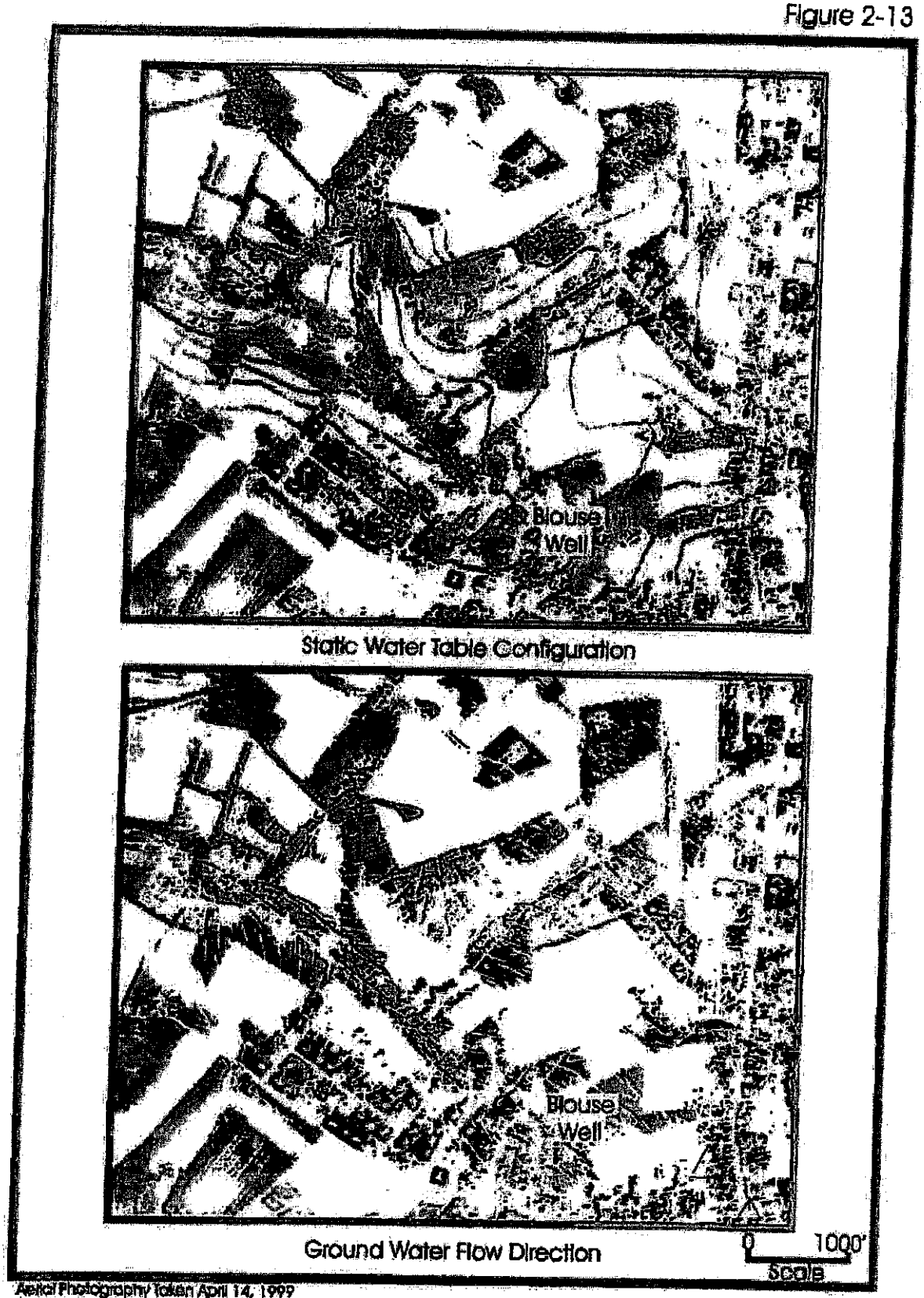
Figure 2-12



Base Map: Glen Rock and New Freedom 7.5' Topographic Quadrangles

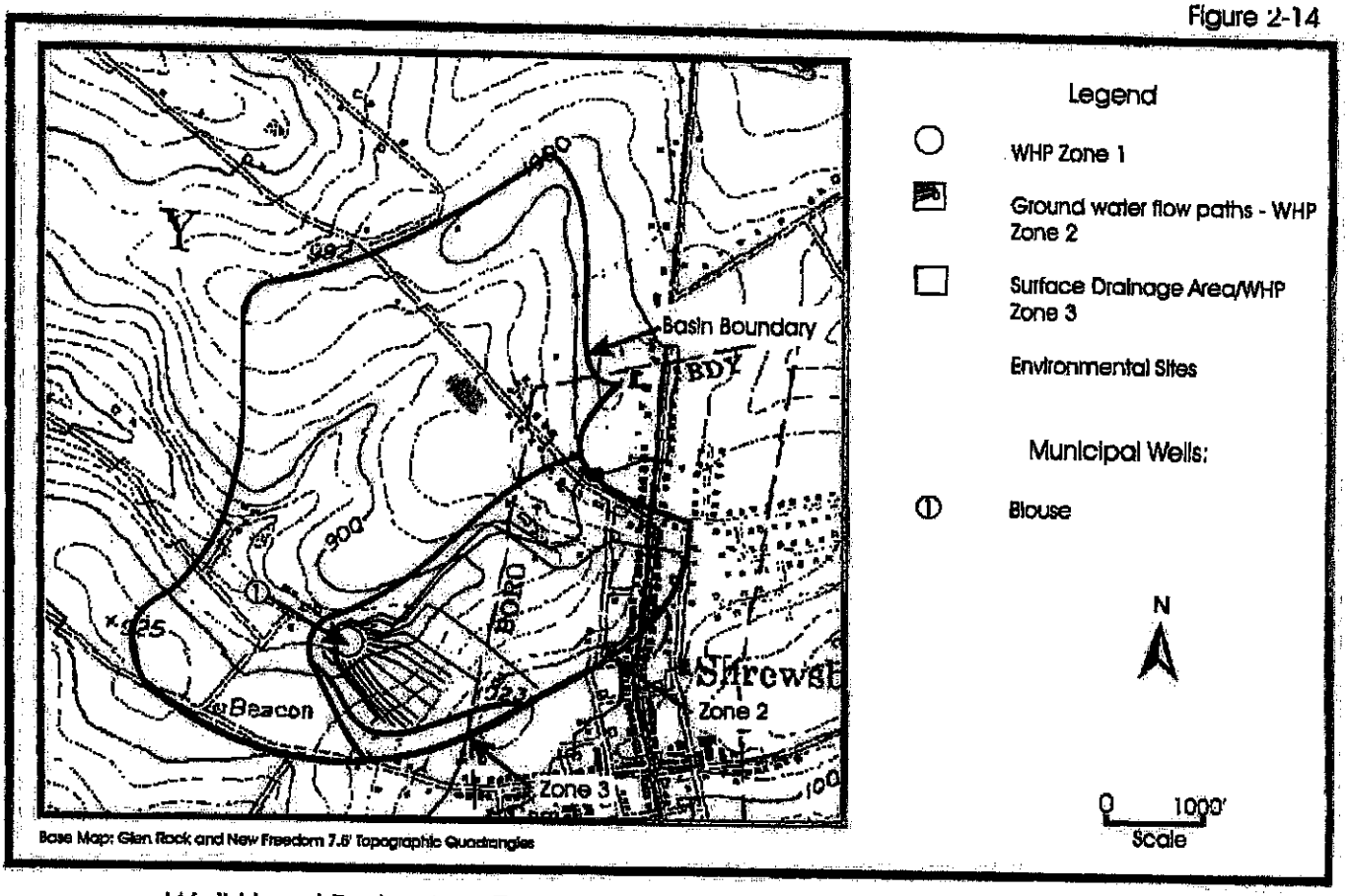
Blouse Basin Simulated Static Water Table Configuration
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figure 2-13



Blouse Basin - Simulated Static Water Table Configuration
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figure 2-14



Well Head Protection Zones (Topographic Map Base) - Blouse Basin
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figure 2-15

Legend

- WHP Zone 1
- Ground water flow paths - WHP Zone 2
- Surface Drainage Area/WHP Zone 3
- Environmental Sites

Municipal Wells:

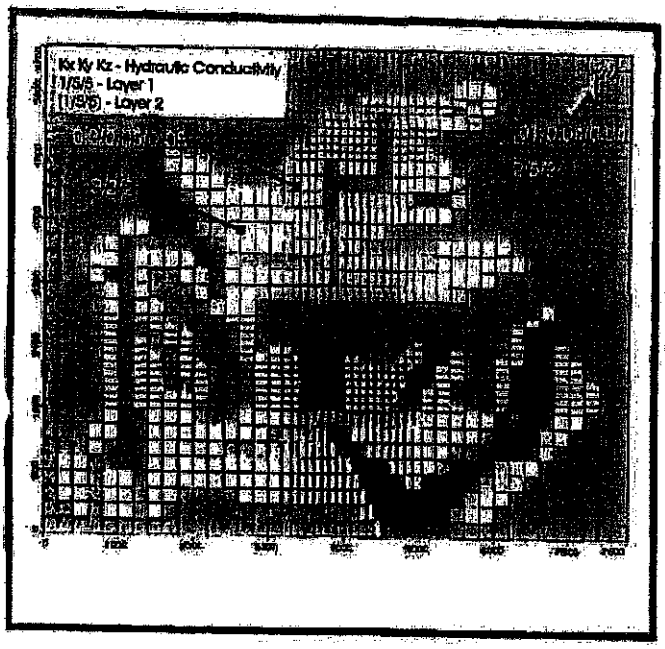
- ① Blouse

N

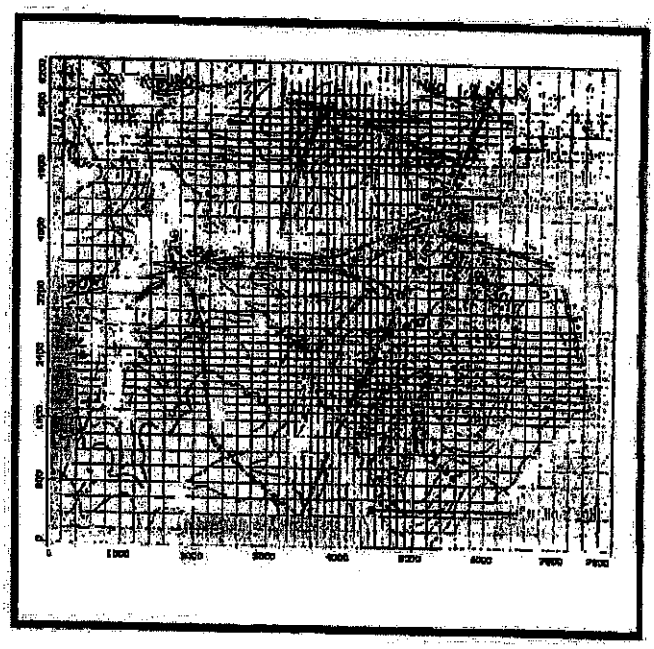
0 1000'
Scale

Well Head Protection Zones (Air Photo Base) - Blouse Basin
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figure 2-16



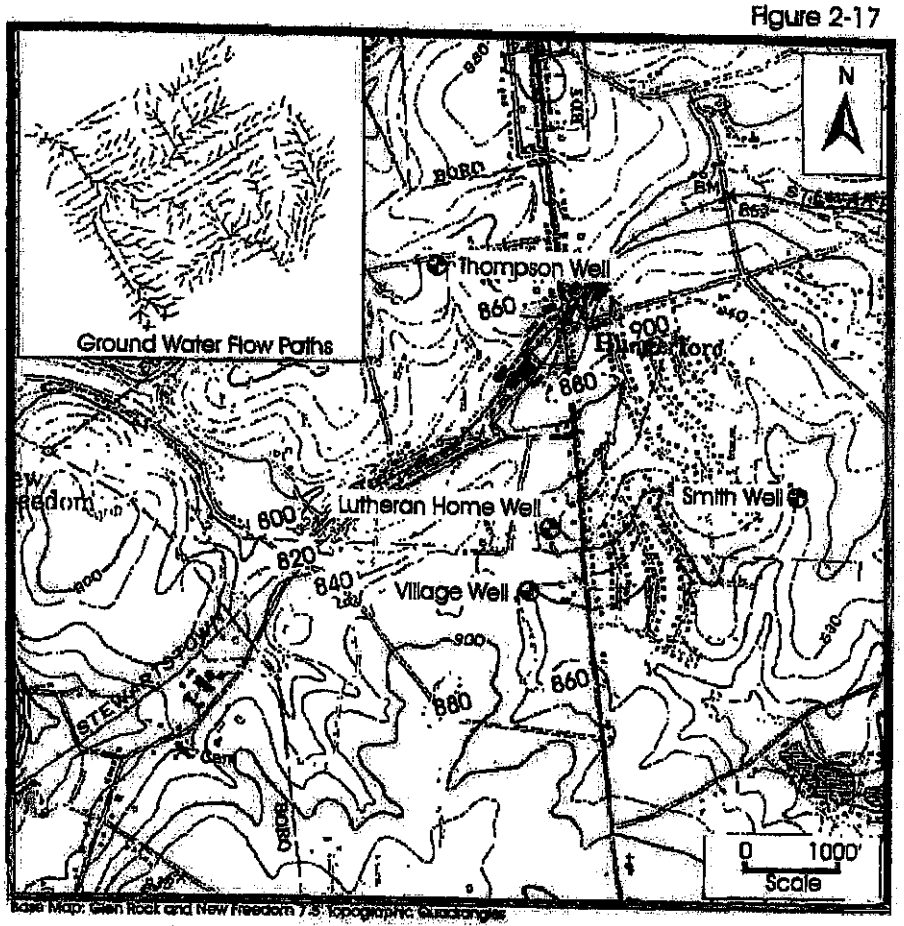
Layer 1 Hydraulic Conductivity Array



Sub-Basin Boundary Array

Thompson Home/Village Smith Sub-Basin Model Arrays
Shrewsbury Well Head Protection Plan - Shrewsbury Pennsylvania

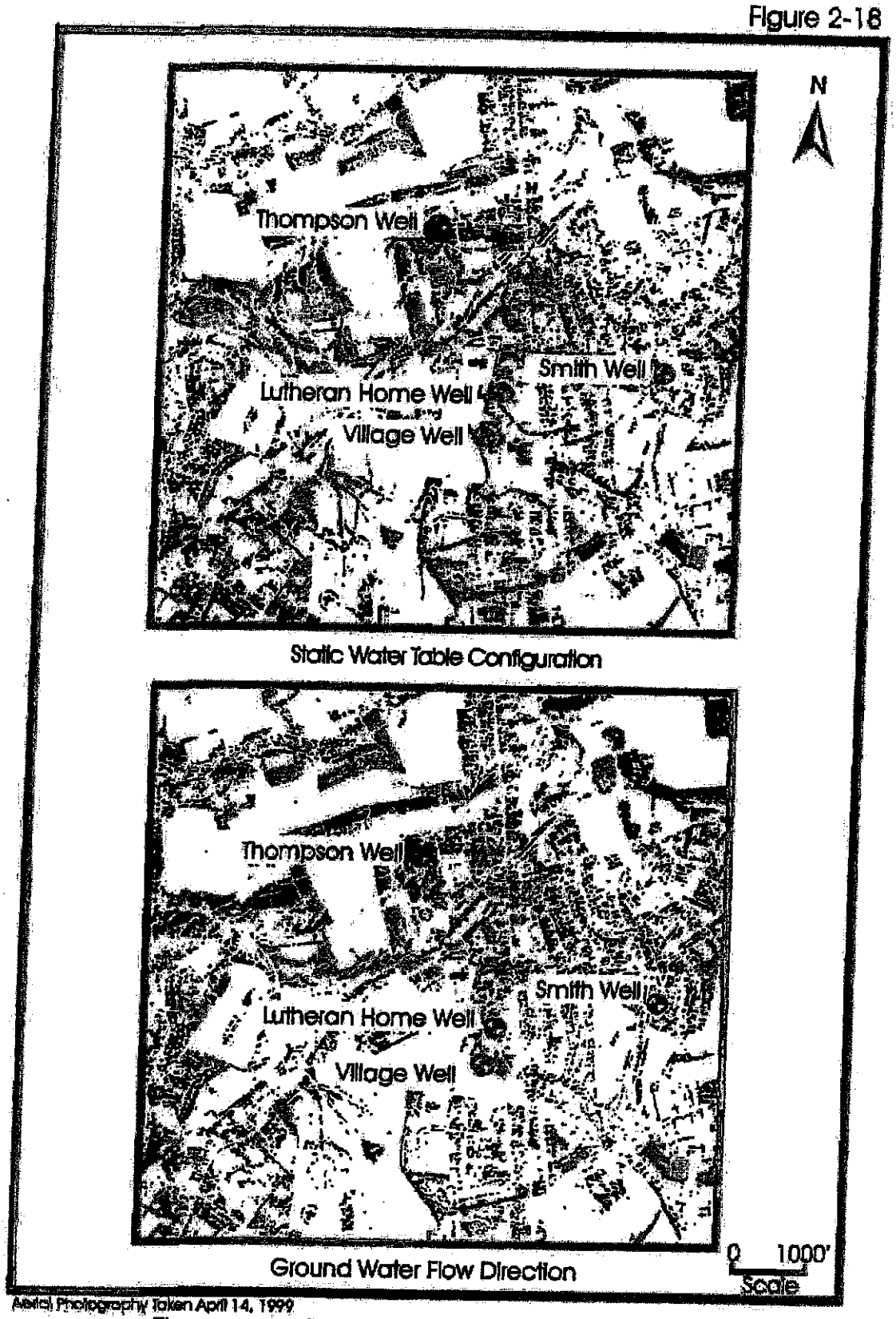
Figure 2-17



Base Map: Glen Rock and New Freedom 7.5' Topographic Quadrangles

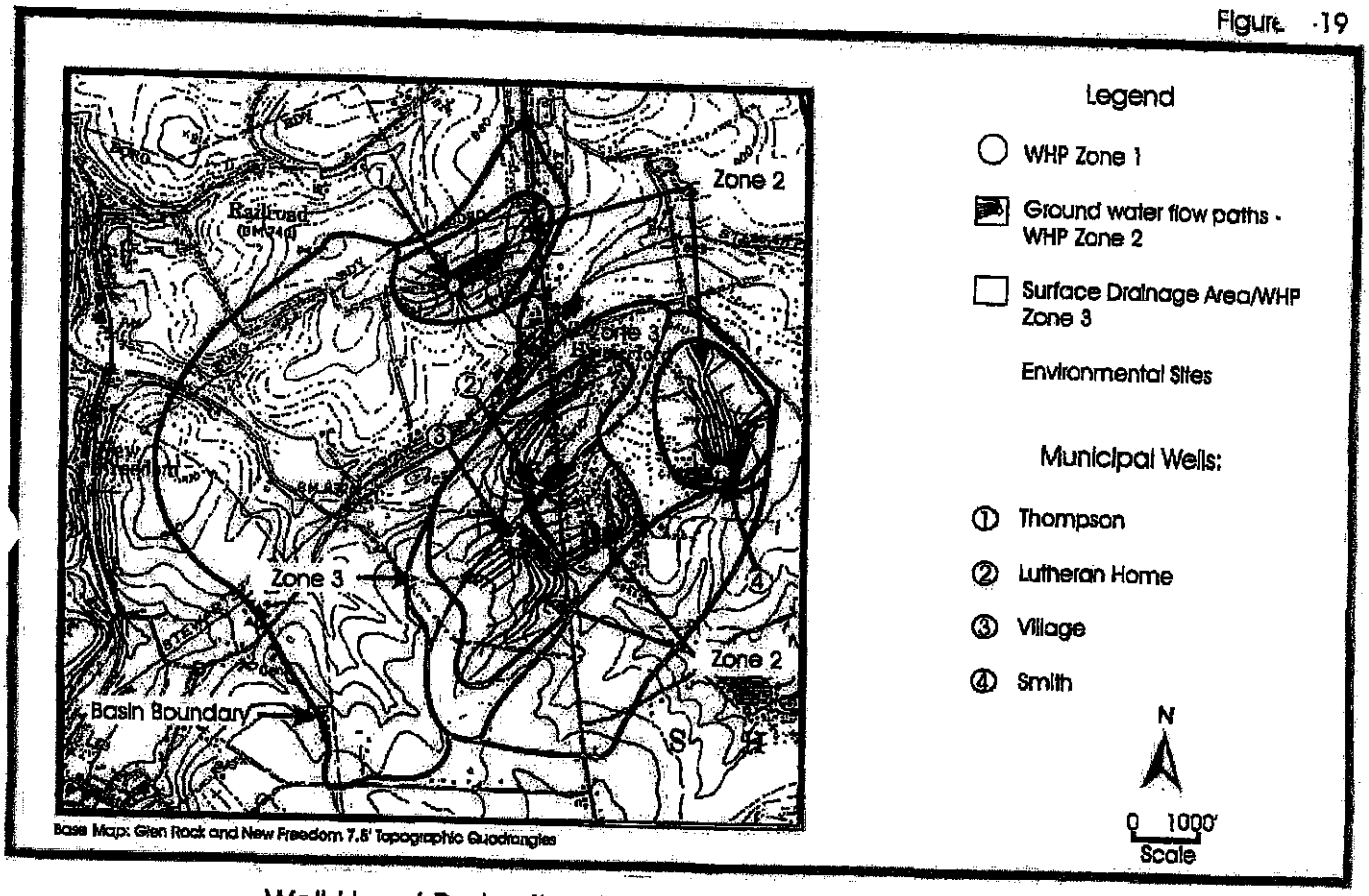
Thompson/Home-Village/Smith Basins
Simulated Static Water Table Configuration
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figure 2-18

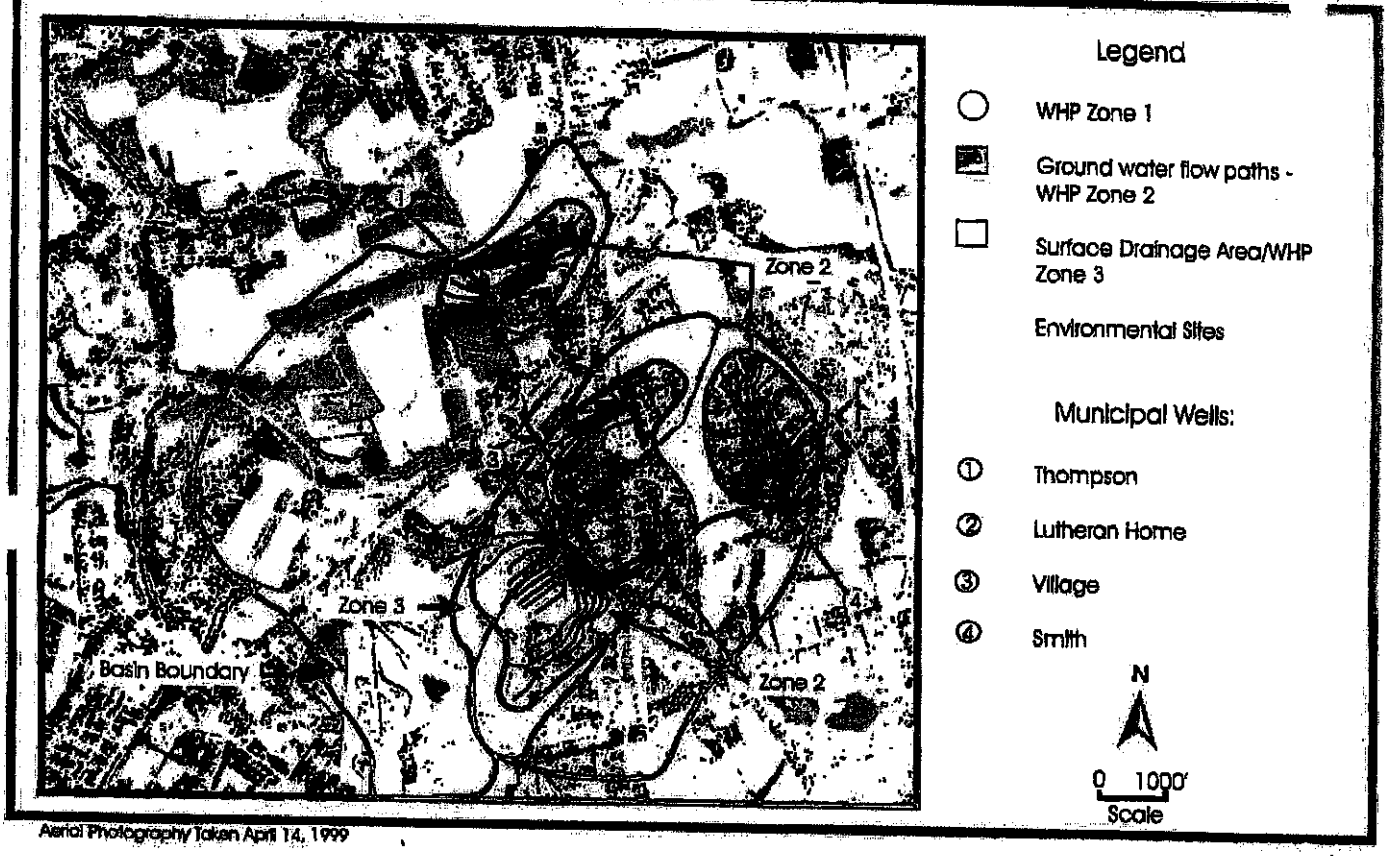


Thompson/Home-Village/Smith Basins
Simulated Static Water Table Configuration
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figure 19

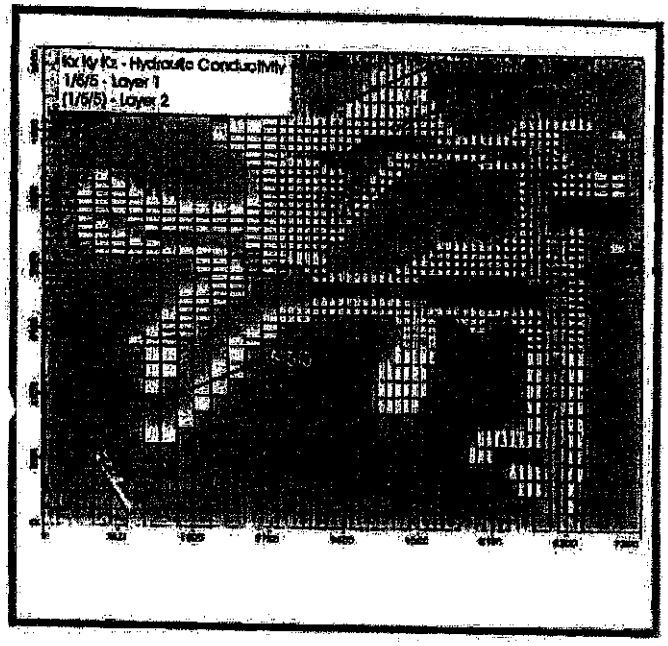


Well Head Protection Zones (Topographic Map Base) -
Thompson Homes/Village Smith Basin
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

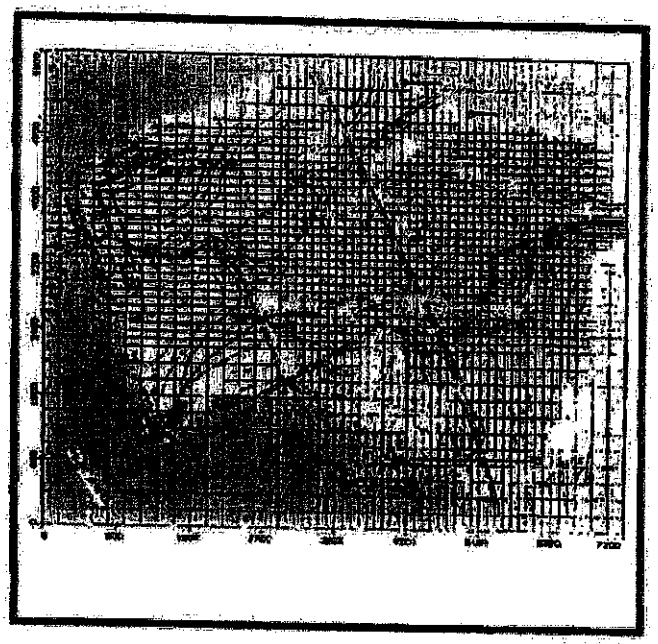


Well Head Protection Zones (Air Photo Base) - Thompson Homes/Village Smith Basin
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figure 2-21



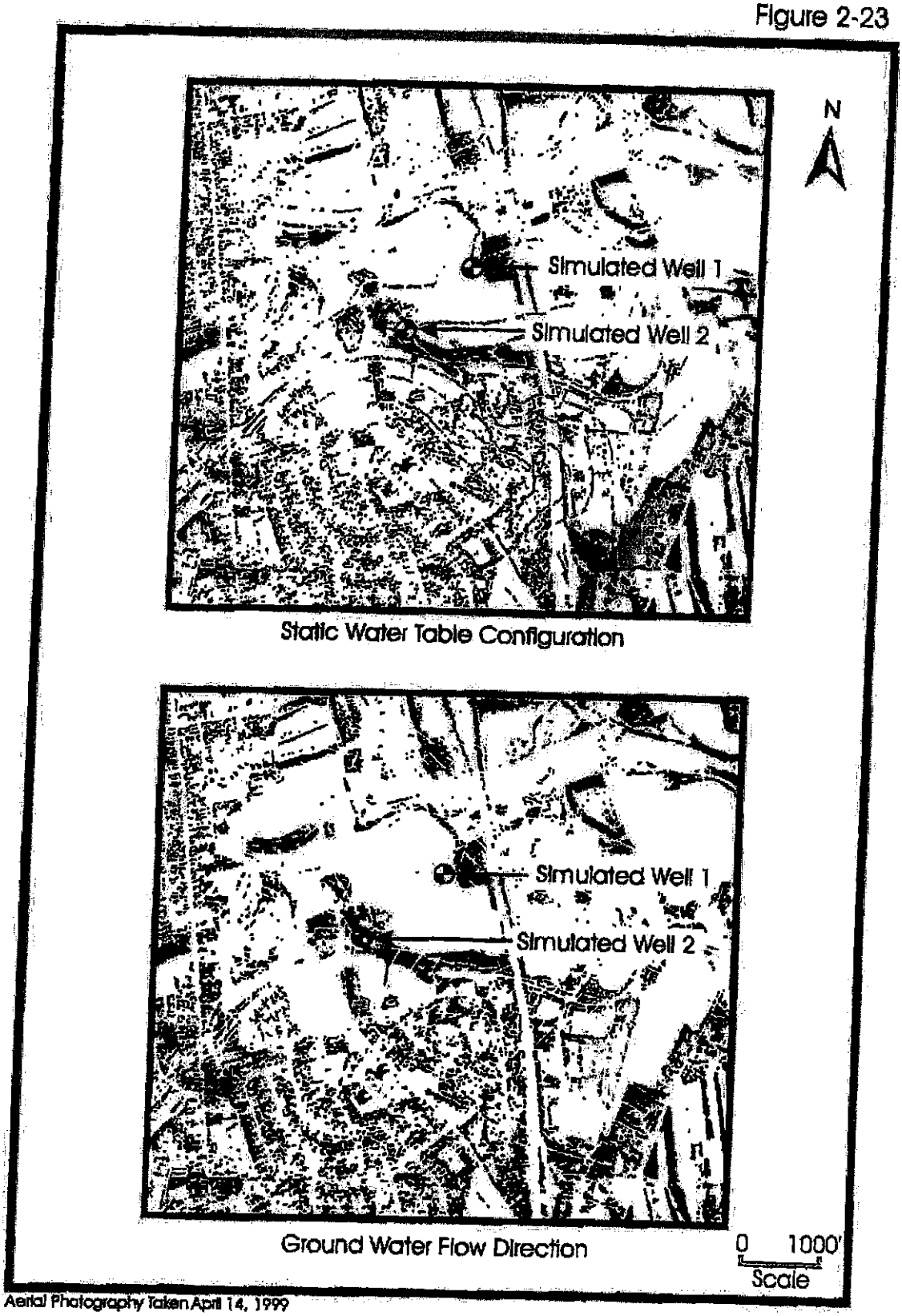
Layer 1 Hydraulic Conductivity Array



Sub-Basin Boundary Array

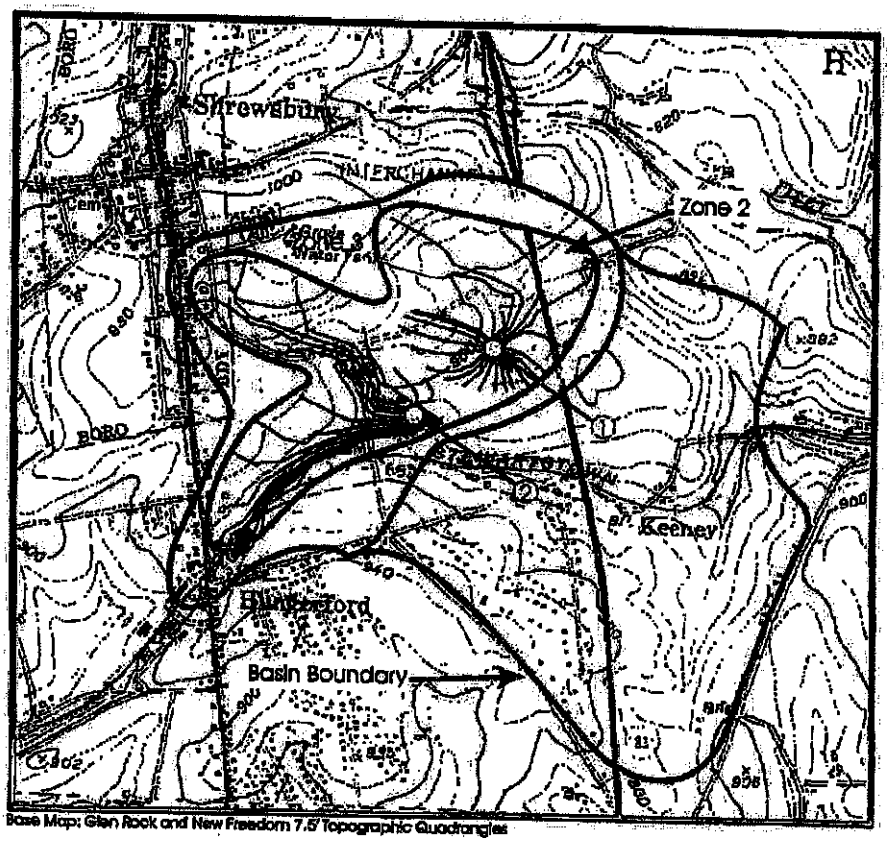
Keeney Sub-Basin Model Arrays
Shrewsbury Well Head Protection Plan - Shrewsbury Pennsylvania

Figure 2-23



Keeney Basin Simulated Static Water Table Configuration
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figur -24



Legend

- WHP Zone 1
- Ground water flow paths - WHP Zone 2
- Surface Drainage Area/WHP Zone 3
- Environmental Sites

Municipal Wells:

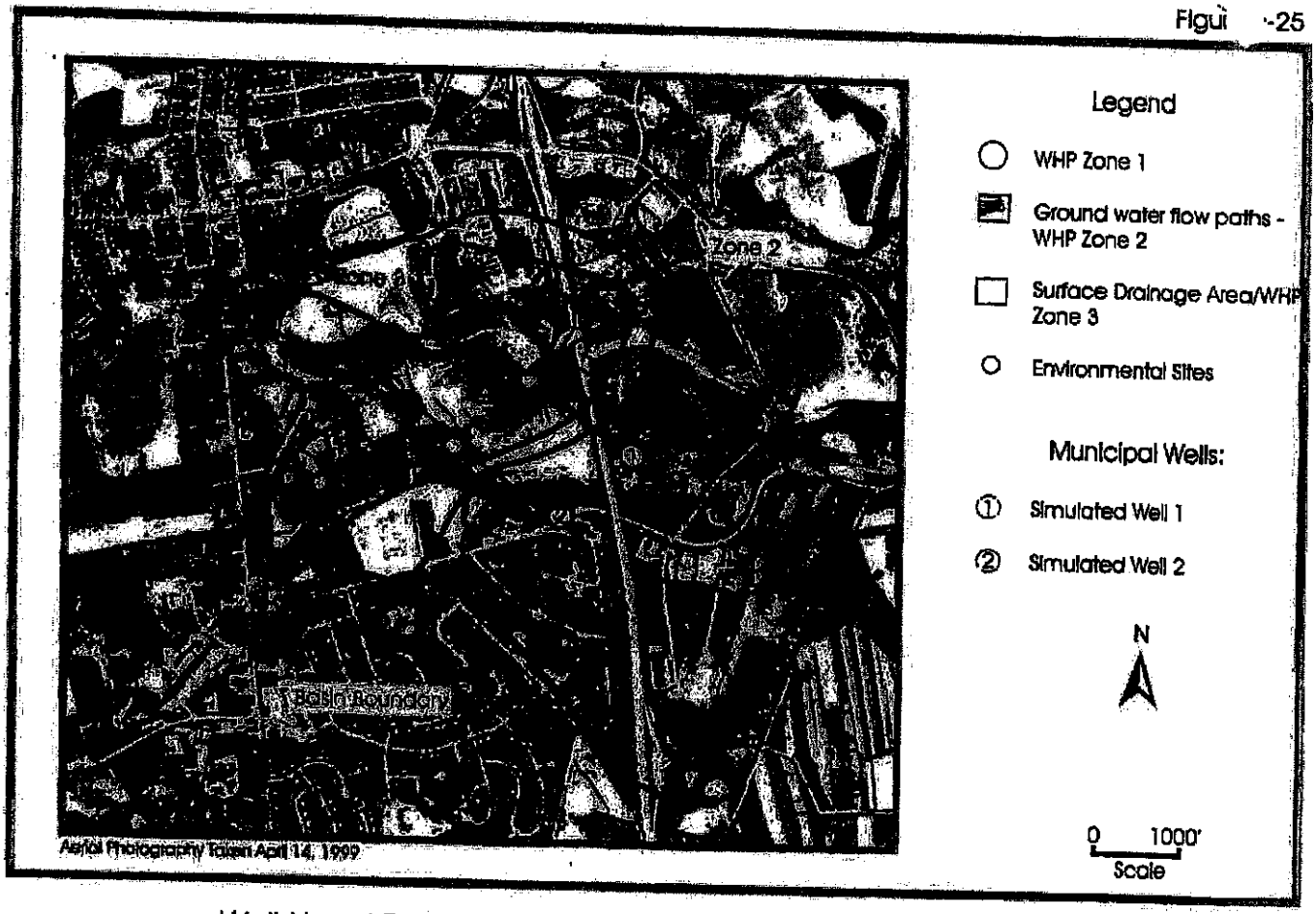
- (1) Simulated Well 1
- (2) Simulated Well 2

N

0 1000'
Scale

Well Head Protection Zones (Topographic Map Base) - Keeney Basin
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

Figu -25



Well Head Protection Zones (Air Photo Base) - Keeney Basin
Shrewsbury Well Head Protection Plan - Shrewsbury, Pennsylvania

EXHIBIT B

Schedule of Regulated Land Uses

Legend:
X – Not Allowed
SE – Special Exception
CU – Conditional Use

USE	ZONE 1	ZONE 2	ZONE 3
Bulk Storage or Aggregate Bulk Storage of Regulated Substances	X	X	SE
Dry Cleaning Establishments; Coin or Commercial Laundries	X	X	SE
Garage Service Station	X	X	SE
Heavy Manufacturing Uses	X	X	SE
Junk Yards	X	X	SE
Land Application of Wastewater and Sludges	X	X	X
Livestock Animals in Excess of 25 Animals Equivalent Units per Acre in Yarding Areas	X	X	X
Metal Plating Establishments	X	X	SE
Open Burning Sites and Dumps	X	X	X
Quarries and Mining Operations	X	X	X
Rock Salt Stockpiles stored directly on either pervious or impervious surface.	X	X	X
Rock Salt Stockpile stored in water-tight container(s) that are completely enclosed at all times for the exception of loading and un-loading of the rock salt contained within, as long as rock salt is the only substance stored within such container(s). An example of such a compliant container is a sea shipping container.	X	CU Approved upon proof of compliance with the conditions listed in Section 5(e) of this Ordinance and Exhibit "B" for this use.	CU Approved upon proof of compliance with the conditions listed in Section 5(e) of this Ordinance and Exhibit "B" for this use.
Sales and/or Storage of Fuels	X	SE	SE
Sanitary Landfill	X	X	X
Sewage Treatment Facilities with On-site Disposal of Primary or Secondary Treated Effluent in Excess of 5,000 gallons per day	X	X	X

USE	ZONE 1	ZONE 2	ZONE 3
Storage and Mixing of Regulated Substances	X	X	SE
Storage of Inflammable Liquids and Gases	X	SE	SE
Use with principal activity being the manufacture, storage, use, transportation, or disposal of Regulated Substances	X	X	X
Use which involves use or storage of Regulated Substances in quantities greater than those with normal household use, but less than Bulk Storage or Aggregate Bulk Storage	X	SE	SE
Used Motor Vehicle Sales Area	X	SE	SE
New Surface/Ground Water Withdrawals/Geothermal Wells/Abandoned Wells	X	SE	SE
Manufacture Use or Storage of Hazardous Substances as a Primary Activity	X	X	X
Junked Materials Whether on the Land Surface, in Sinkholes, Streams, Wetlands or Other Water Bodies	X	X	X
Collection & Transfer Facilities for Solid Waste or Hazardous Substances, including Battery & Drum Recycling & Reprocessing	X	X	X
Commercial Truck or Rail Tanker Cleaning Operations Where Hazardous Substances are Involved	X	X	X
Commercial Slaughtering, Rendering, or Tanneries	X	X	X
Underground Injection Wells	X	X	X
Liquid Petroleum Product Transmission Lines	X	X	X
Commercial or Municipal Solid Waste Recycling & Composting Facilities: Storage facilities shall be designed to: a) Have an impervious storage & loading surface; b) Prevent infiltration of rain and surface water into storage areas; c) Provide diking to prevent runoff from storage & loading areas.	X	X	SE
Cemeteries: All caskets shall be encased in concrete grave liners.	X	X	SE

As used in this Exhibit B, the term "**Regulated Substances**" shall mean any element, compound, mixture, solution or substance that, when released into the environment, may present substantial danger to the public health, welfare or the environment which is:

(1) any substance defined as a hazardous substance in section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as of the effective date of this Wellhead Protection Ordinance, or hereafter amended;

(2) any substance defined and listed as a hazardous substance in 34 Pa. Code § 323.1 et seq. and its appendix, as of the effective date of this Wellhead Protection Ordinance, or hereafter amended;

(3) any substance defined and listed as an extremely hazardous substance in 40 CFR Part 355 Appendices A and B, as of the effective date of this Wellhead Protection Ordinance, or hereafter amended;

(4) petroleum, including crude oil or any fraction thereof and hydrocarbons which are liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), including, but not limited to, oil, petroleum, fuel oil, oil sludge, oil refuse, oil mixed with other nonhazardous wastes and crude oils, gasoline and kerosene;

(5) any other substance determined by the Department of Environmental Protection by regulation whose containment, storage, use or dispensing may present a hazard to the public health and safety or the environment; or

(6) any substances regulated under federal, state, or county environmental; pollution control, hazardous substance and drinking water laws and regulations.

As used in this Exhibit B, the term **"Bulk Storage"** shall mean the storage of Regulated Substances in qualities that exceeds one or more of the following:

1. A receptacle or container that exceeds 119 gallons of liquid;
2. A receptacle or container that exceeds 882 pounds of mass for a solid or liquid;
3. A receptacle or container that exceeds 1,000 pounds of gas as defined by the applicable Code of Federal Regulations; or
4. A receptacle or container that exceeds the "Threshold Planning Quantities" for an extremely hazardous substances as listed in 40 CFR Part 355 Appendices A and B (provided here for reference in its current form in Exhibit "D"), of mass for a solid or liquid.

As used in this Exhibit B, the term **"Aggregate Bulk Storage"** shall mean the storage of one or more Regulated Substances on a lot or tract of land, that regardless of the size or number of receptacles or containers within which a Regulated Substance is stored, in total amount exceeds:

1. 119 gallons of liquid, 882 pounds of mass for a solid or liquid, and/or 1,000 pounds of gas; or

2. one or more "Threshold Planning Quantities" for one or more extremely hazardous substances as listed in 40 CFR Part 355 Appendices A and B of mass for a solid or liquid.

Illustrative examples of Aggregate Bulk Storage, include but are not limited to:

(i) landowner stores on lot d, 75 gallons of liquid of regulated substance x in one container, and 100 gallons of liquid of regulated substance y in one other container, for a total of 175 gallons of two regulated substances on lot d;

(ii) landowner stores on lot d, 50 gallons of liquid of regulated substance b in one container and 110 gallons of liquid of regulated substance b in one other container, for a total of 160 gallons of one regulated substance on lot d; or

(iii) landowner stores on lot d, 400 pounds of liquid of regulated substance e (which is a substance listed as an extremely hazardous substance on 40 CFR Part 355 Appendices A with a Threshold Planning Quantity of 500 pounds) in one container, and 120 pounds of liquid of regulated substance e in one other container, for a total of 520 pounds of one regulated substance on lot d.

As used in this Exhibit B, the term **"Non-Bulk Storage"** shall mean the total amount of stored Regulated Substance(s) on each lot or tract of land, that singularly or in total quantity of receptacle(s) or container(s) are greater than normal household use, but otherwise do not meet the definition of Bulk Storage and/or Aggregate Bulk Storage.

If a use can be classified in more than one category, it shall be deemed in the more restrictive category and be subject to the greater restrictions.

Any other commercial or industrial use that may result in the pollution, degradation, contamination or discoloration of any underground or surface water of the Commonwealth of Pennsylvania is prohibited. The Applicant for any use not otherwise referenced herein that may result in such contamination may apply to the Zoning Hearing Board, as provided for in Section 5 of the Wellhead Protection Ordinance, for approval and shall have the burden of proving, by

clear and convincing evidence, that such pollution, degradation, contamination, or discoloration shall not occur as the result of such proposed use.

In addition to this requirements imposed by or through this Wellhead Protection Ordinance, any of the uses referenced herein shall also comply with any and all other federal, state or local laws or regulations applicable to them.

EXHIBIT C

Facility Profile Sheet
Borough of Shrewsbury, Pennsylvania
Wellhead Protection Plan

Name of Business:
Physical Location:
Is Property Use Regulated? (circle one) yes no Wellhead Protection Zone Designation:____

Owner:_____ Contact (name):_____

Owner Address:_____ Telephone:_____

_____

1. Site Activity Summary: Please provide a brief written summary describing all current business/property uses, include type of business, number of employees, nature of site activities, etc.

2. Building Information

Building	Area	Construction	Use

3. Lot Information

Use Designation	Use Description	Per Cent of Total Lot Area
Buildings		
Paved		
Unpaved		
Vacant		
Other Use		

4. Hazardous materials use, storage and disposal facilities

Type of Facility	Number on Site	Product(s) Stored	Total Capacity
Underground Storage Tanks			
Above Ground Storage Tanks			
Interior Storage Tanks			
Hazardous Waste Storage Areas			
Other			

5. List Permits Held

Type of Permit	Issuing Agency	Issue Date	Expire Date

6. List of Regulated Substances Used (attach sheet with additional information as needed)

Product Name	Regulated Components(s)	Maximum Quantity Stored

7. Prepared by:_____ Date:_____

Witnessed by:_____ Date:_____

EXHIBIT D

Regulated Substances List References

Appendices A and B to 40 CFR Part 355, in their current form, are reprinted within this exhibit as a reference for Exhibit B.

Certain information that is not relevant to Exhibit B or the requirements of the Wellhead Protection Ordinance have been purposely omitted from reprinted Appendices A and B to 40 CFR Part 355 found here.

Appendix A to Part 355 - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities

[Alphabetical Order]

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
75-86-5	Acetone Cyanohydrin			1,000
1752-30-3	Acetone Thiosemicarbazide			1,000/10,000
107-02-8	Acrolein			500
79-06-1	Acrylamide			1,000/10,000
107-13-1	Acrylonitrile			10,000
814-68-6	Acrylyl Chloride			100
111-69-3	Adiponitrile			1,000
116-06-3	Aldicarb			100/10,000
309-00-2	Aldrin			500/10,000
107-18-6	Allyl Alcohol			1,000
107-11-9	Allylamine			500
20859-73-8	Aluminum Phosphide			500
54-62-6	Aminopterin			500/10,000
78-53-5	Amiton			500
3734-	Amiton Oxalate			100/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
97-2				
7664-41-7	Ammonia			500
300-62-9	Amphetamine			1,000
62-53-3	Aniline			1,000
88-05-1	Aniline, 2,4,6-Trimethyl-			500
7783-70-2	Antimony Pentafluoride			500
1397-94-0	Antimycin A			1,000/10,000
86-88-4	ANTU			500/10,000
1303-28-2	Arsenic Pentoxide			100/10,000
1327-53-3	Arsenous Oxide			100/10,000
7784-34-1	Arsenous Trichloride			500
7784-42-1	Arsine			100
2642-71-9	Azinphos-Ethyl			100/10,000
86-50-0	Azinphos-Methyl			10/10,000
98-87-3	Benzal Chloride			500
98-16-8	Benzenamine, 3-(Trifluoromethyl)-			500
100-14-1	Benzene, 1-(Chloromethyl)-4-Nitro-			500/10,000
98-05-5	Benzenearsonic Acid			10/10,000
3615-21-2	Benzimidazole, 4,5-Dichloro-2-(Trifluoromethyl)-			500/10,000
98-07-7	Benzotrichloride			100
100-44-7	Benzyl Chloride			500
140-29-4	Benzyl Cyanide			500
15271-41-7	Bicyclo[2.2.1]Heptane-2-Carbonitrile, 5-Chloro-6-((((Methylamino)Carbonyl)Oxy)Imino)-, (1s-(1-alpha,2-beta,4-alpha,5-alpha,6E))-			500/10,000
534-07-6	Bis(Chloromethyl) Ketone			10/10,000
4044-65-9	Bitoscanate			500/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
10294-34-5	Boron Trichloride			500
7637-07-2	Boron Trifluoride			500
353-42-4	Boron Trifluoride Compound With Methyl Ether (1:1)			1,000
28772-56-7	Bromadiolone			100/10,000
7726-95-6	Bromine			500
1306-19-0	Cadmium Oxide			100/10,000
2223-93-0	Cadmium Stearate			1,000/10,000
7778-44-1	Calcium Arsenate			500/10,000
8001-35-2	Camphechlor			500/10,000
56-25-7	Cantharidin			100/10,000
51-83-2	Carbachol Chloride			500/10,000
26419-73-8	Carbamic Acid, Methyl-, O-(((2,4-Dimethyl-1, 3-Dithiolan-2-yl)Methylene)Amino)-			100/10,000
1563-66-2	Carbofuran			10/10,000
75-15-0	Carbon Disulfide			10,000
786-19-6	Carbophenothion			500
57-74-9	Chlordane			1,000
470-90-6	Chlorfenvinfos			500
7782-50-5	Chlorine			100
24934-91-6	Chlormephos			500
999-81-5	Chlormequat Chloride			100/10,000
79-11-8	Chloroacetic Acid			100/10,000
107-07-3	Chloroethanol			500
627-11-2	Chloroethyl Chloroformate			1,000
67-66-3	Chloroform			10,000
542-88-	Chloromethyl Ether			100

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
1				
107-30-2	Chloromethyl Methyl Ether			100
3691-35-8	Chlorophacinone			100/10,000
1982-47-4	Chloroxuron			500/10,000
21923-23-9	Chlorthiophos			500
10025-73-7	Chromic Chloride			1/10,000
62207-76-5	Cobalt, ((2,2′-(1,2-Ethanediylbis (Nitrilomethylidyne)) Bis(6-Fluorophenolato))(2-)-N,N′,O,O′)-			100/10,000
10210-68-1	Cobalt Carbonyl			10/10,000
64-86-8	Colchicine			10/10,000
56-72-4	Coumaphos			100/10,000
5836-29-3	Coumatetralyl			500/10,000
95-48-7	Cresol, o-			1,000/10,000
535-89-7	Crimidine			100/10,000
4170-30-3	Crotonaldehyde			1,000
123-73-9	Crotonaldehyde, (E)-			1,000
506-68-3	Cyanogen Bromide			500/10,000
506-78-5	Cyanogen Iodide			1,000/10,000
2636-26-2	Cyanophos			1,000
675-14-9	Cyanuric Fluoride			100
66-81-9	Cycloheximide			100/10,000
108-91-8	Cyclohexylamine			10,000
17702-41-9	Decaborane(14)			500/10,000
8065-48-3	Demeton			500
919-86-8	Demeton-S-Methyl			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
10311-84-9	Dialifor			100/10,000
19287-45-7	Diborane			100
111-44-4	Dichloroethyl ether			10,000
149-74-6	Dichloromethylphenylsilane			1,000
62-73-7	Dichlorvos			1,000
141-66-2	Dicrotophos			100
1464-53-5	Diepoxybutane			500
814-49-3	Diethyl Chlorophosphate			500
71-63-6	Digitoxin			100/10,000
2238-07-5	Diglycidyl Ether			1,000
20830-75-5	Digoxin			10/10,000
115-26-4	Dimefox			500
60-51-5	Dimethoate			500/10,000
2524-03-0	Dimethyl Phosphorochloridothioate			500
77-78-1	Dimethyl sulfate			500
75-78-5	Dimethyldichlorosilane			500
57-14-7	Dimethylhydrazine			1,000
99-98-9	Dimethyl-p-Phenylenediamine			10/10,000
644-64-4	Dimetilan			500/10,000
534-52-1	Dinitrocresol			10/10,000
88-85-7	Dinoseb			100/10,000
1420-07-1	Dinoterb			500/10,000
78-34-2	Dioxathion			500
82-66-6	Diphacinone			10/10,000
152-16-9	Diphosphoramide, Octamethyl-			100
298-04-4	Disulfoton			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
514-73-8	Dithiazanine Iodide			500/10,000
541-53-7	Dithiobiuret			100/10,000
316-42-7	Emetine, Dihydrochloride			1/10,000
115-29-7	Endosulfan			10/10,000
2778-04-3	Endothion			500/10,000
72-20-8	Endrin			500/10,000
106-89-8	Epichlorohydrin			1,000
2104-64-5	EPN			100/10,000
50-14-6	Ergocalciferol			1,000/10,000
379-79-3	Ergotamine Tartrate			500/10,000
1622-32-8	Ethanesulfonyl Chloride, 2-Chloro-			500
10140-87-1	Ethanol, 1,2-Dichloro-, Acetate			1,000
563-12-2	Ethion			1,000
13194-48-4	Ethoprophos			1,000
538-07-8	Ethylbis(2-Chloroethyl)Amine			500
371-62-0	Ethylene Fluorohydrin			10
75-21-8	Ethylene Oxide			1,000
107-15-3	Ethylenediamine			10,000
151-56-4	Ethyleneimine			500
542-90-5	Ethylthiocyanate			10,000
22224-92-6	Fenamiphos			10/10,000
115-90-2	Fensulfothion			500
4301-50-2	Fluenetil			100/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
7782-41-4	Fluorine			500
640-19-7	Fluoroacetamide			100/10,000
144-49-0	Fluoroacetic Acid			10/10,000
359-06-8	Fluoroacetyl Chloride			10
51-21-8	Fluorouracil			500/10,000
944-22-9	Fonofos			500
50-00-0	Formaldehyde			500
107-16-4	Formaldehyde Cyanohydrin			1,000
23422-53-9	Formetanate Hydrochloride			500/10,000
2540-82-1	Formothion			100
17702-57-7	Formparanate			100/10,000
21548-32-3	Fosthietan			500
3878-19-1	Fuberidazole			100/10,000
110-00-9	Furan			500
13450-90-3	Gallium Trichloride			500/10,000
77-47-4	Hexachlorocyclopentadiene			100
4835-11-4	Hexamethylenediamine, N,N'-Dibutyl-			500
302-01-2	Hydrazine			1,000
74-90-8	Hydrocyanic Acid			100
7647-01-0	Hydrogen Chloride (gas only)			500
7664-39-3	Hydrogen Fluoride			100
7722-84-1	Hydrogen Peroxide (Conc >52%)			1,000
7783-07-5	Hydrogen Selenide			10
7783-	Hydrogen Sulfide			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
06-4				
123-31-9	Hydroquinone			500/10,000
13463-40-6	Iron, Pentacarbonyl-			100
297-78-9	Isobenzan			100/10,000
78-82-0	Isobutyronitrile			1,000
102-36-3	Isocyanic Acid, 3,4-Dichlorophenyl Ester			500/10,000
465-73-6	Isodrin			100/10,000
55-91-4	Isofluorphate			100
4098-71-9	Isophorone Diisocyanate			500
108-23-6	Isopropyl Chloroformate			1,000
119-38-0	Isopropylmethyl-pyrazolyl Dimethylcarbamate			500
78-97-7	Lactonitrile			1,000
21609-90-5	Leptophos			500/10,000
541-25-3	Lewisite			10
58-89-9	Lindane			1,000/10,000
7580-67-8	Lithium Hydride			100
109-77-3	Malononitrile			500/10,000
12108-13-3	Manganese, Tricarbonyl Methylcyclopentadienyl			100
51-75-2	Mechlorethamine			10
950-10-7	Mephosfolan			500
1600-27-7	Mercuric Acetate			500/10,000
7487-94-7	Mercuric Chloride			500/10,000
21908-53-2	Mercuric Oxide			500/10,000
10476-95-6	Methacrolein Diacetate			1,000
760-93-	Methacrylic Anhydride			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
0				
126-98-7	Methacrylonitrile			500
920-46-7	Methacryloyl Chloride			100
30674-80-7	Methacryloyloxyethyl Isocyanate			100
10265-92-6	Methamidophos			100/10,000
558-25-8	Methanesulfonyl Fluoride			1,000
950-37-8	Methidathion			500/10,000
2032-65-7	Methiocarb			500/10,000
16752-77-5	Methomyl			500/10,000
151-38-2	Methoxyethylmercuric Acetate			500/10,000
80-63-7	Methyl 2-Chloroacrylate			500
74-83-9	Methyl Bromide			1,000
79-22-1	Methyl Chloroformate			500
60-34-4	Methyl Hydrazine			500
624-83-9	Methyl Isocyanate			500
556-61-6	Methyl Isothiocyanate			500
74-93-1	Methyl Mercaptan			500
3735-23-7	Methyl Phenkapton			500
676-97-1	Methyl Phosphonic Dichloride			100
556-64-9	Methyl Thiocyanate			10,000
78-94-4	Methyl Vinyl Ketone			10
502-39-6	Methylmercuric Dicyanamide			500/10,000
75-79-6	Methyltrichlorosilane			500
1129-41-5	Metolcarb			100/10,000
7786-34-7	Mevinphos			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
315-18-4	Mexacarbate			500/10,000
50-07-7	Mitomycin C			500/10,000
6923-22-4	Monocrotophos			10/10,000
2763-96-4	Muscimol			500/10,000
505-60-2	Mustard Gas			500
13463-39-3	Nickel Carbonyl			1
54-11-5	Nicotine			100
65-30-5	Nicotine Sulfate			100/10,000
7697-37-2	Nitric Acid			1,000
10102-43-9	Nitric Oxide			100
98-95-3	Nitrobenzene			10,000
1122-60-7	Nitrocyclohexane			500
10102-44-0	Nitrogen Dioxide			100
62-75-9	Nitrosodimethylamine			1,000
991-42-4	Norbormide			100/10,000
	Organorhodium Complex (PMN-82-147)			10/10,000
630-60-4	Ouabain			100/10,000
23135-22-0	Oxamyl			100/10,000
78-71-7	Oxetane, 3,3-Bis(Chloromethyl)-			500
2497-07-6	Oxydisulfoton			500
10028-15-6	Ozone			100
1910-42-5	Paraquat Dichloride			10/10,000
2074-50-2	Paraquat Methosulfate			10/10,000
56-38-2	Parathion			100
298-00-0	Parathion-Methyl			100/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
12002-03-8	Paris Green			500/10,000
19624-22-7	Pentaborane			500
2570-26-5	Pentadecylamine			100/10,000
79-21-0	Peracetic Acid			500
594-42-3	Perchloromethylmercaptan			500
108-95-2	Phenol			500/10,000
4418-66-0	Phenol, 2,2'-Thiobis(4-Chloro-6-Methyl)-			100/10,000
64-00-6	Phenol, 3-(1-Methylethyl)-, Methylcarbamate			500/10,000
58-36-6	Phenoxarsine, 10,10'-Oxydi-			500/10,000
696-28-6	Phenyl Dichloroarsine			500
59-88-1	Phenylhydrazine Hydrochloride			1,000/10,000
62-38-4	Phenylmercury Acetate			500/10,000
2097-19-0	Phenylsilatrane			100/10,000
103-85-5	Phenylthiourea			100/10,000
298-02-2	Phorate			10
4104-14-7	Phosacetim			100/10,000
947-02-4	Phosfolan			100/10,000
75-44-5	Phosgene			10
13171-21-6	Phosphamidon			100
7803-51-2	Phosphine			500
2703-13-1	Phosphonothioic Acid, Methyl-, O-Ethyl O-(4-(Methylthio) Phenyl) Ester			500
50782-69-9	Phosphonothioic Acid, Methyl-, S-(2-(Bis(1Methylethyl)Amino)Ethyl) O-Ethyl Ester			100
2665-30-7	Phosphonothioic Acid, Methyl-, O-(4-Nitrophenyl) O-Phenyl Ester			500
3254-63-5	Phosphoric Acid, Dimethyl 4-(Methylthio)Phenyl Ester			500
2587-	Phosphorothioic Acid, O,O-Dimethyl-S-(2-Methylthio)			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
90-8	Ethyl Ester			
7723-14-0	Phosphorus			100
10025-87-3	Phosphorus Oxychloride			500
10026-13-8	Phosphorus Pentachloride			500
7719-12-2	Phosphorus Trichloride			1,000
57-47-6	Physostigmine			100/10,000
57-64-7	Physostigmine, Salicylate (1:1)			100/10,000
124-87-8	Picrotoxin			500/10,000
110-89-4	Piperidine			1,000
23505-41-1	Pirimifos-Ethyl			1,000
10124-50-2	Potassium Arsenite			500/10,000
151-50-8	Potassium Cyanide			100
506-61-6	Potassium Silver Cyanide			500
2631-37-0	Promecarb			500/10,000
106-96-7	Propargyl Bromide			10
57-57-8	Propiolactone, Beta-			500
107-12-0	Propionitrile			500
542-76-7	Propionitrile, 3-Chloro-			1,000
70-69-9	Propiophenone, 4-Amino-			100/10,000
109-61-5	Propyl Chloroformate			500
75-56-9	Propylene Oxide			10,000
75-55-8	Propyleneimine			10,000
2275-18-5	Prothoate			100/10,000
129-00-0	Pyrene			1,000/10,000
140-76-1	Pyridine, 2-Methyl-5-Vinyl-			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
504-24-5	Pyridine, 4-Amino-			500/10,000
1124-33-0	Pyridine, 4-Nitro-,l-Oxide			500/10,000
53558-25-1	Pyriminil			100/10,000
14167-18-1	Salcomine			500/10,000
107-44-8	Sarin			10
7783-00-8	Selenious Acid			1,000/10,000
7791-23-3	Selenium Oxychloride			500
563-41-7	Semicarbazide Hydrochloride			1,000/10,000
3037-72-7	Silane, (4-Aminobutyl)Diethoxymethyl-			1,000
7631-89-2	Sodium Arsenate			1,000/10,000
7784-46-5	Sodium Arsenite			500/10,000
26628-22-8	Sodium Azide ($Na(N_3)$)			500
124-65-2	Sodium Cacodylate			100/10,000
143-33-9	Sodium Cyanide (Na(CN))			100
62-74-8	Sodium Fluoroacetate			10/10,000
13410-01-0	Sodium Selenate			100/10,000
10102-18-8	Sodium Selenite			100/10,000
10102-20-2	Sodium Tellurite			500/10,000
900-95-8	Stannane, Acetoxytriphenyl-			500/10,000
57-24-9	Strychnine			100/10,000
60-41-3	Strychnine Sulfate			100/10,000
3689-24-5	Sulfotep			500
3569-57-1	Sulfoxide, 3-Chloropropyl Octyl			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
7446-09-5	Sulfur Dioxide			500
7783-60-0	Sulfur Tetrafluoride			100
7446-11-9	Sulfur Trioxide			100
7664-93-9	Sulfuric Acid			1,000
77-81-6	Tabun			10
7783-80-4	Tellurium Hexafluoride			100
107-49-3	TEPP			100
13071-79-9	Terbufos			100
78-00-2	Tetraethyllead			100
597-64-8	Tetraethyltin			100
75-74-1	Tetramethyllead			100
509-14-8	Tetranitromethane			500
10031-59-1	Thallium Sulfate			100/10,000
6533-73-9	Thallous Carbonate			100/10,000
7791-12-0	Thallous Chloride			100/10,000
2757-18-8	Thallous Malonate			100/10,000
7446-18-6	Thallous Sulfate			100/10,000
2231-57-4	Thiocarbazide			1,000/10,000
39196-18-4	Thiofanox			100/10,000
297-97-2	Thionazin			500
108-98-5	Thiophenol			500
79-19-6	Thiosemicarbazide			100/10,000
5344-82-1	Thiourea, (2-Chlorophenyl)-			100/10,000
614-78-	Thiourea, (2-Methylphenyl)-			500/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
8				
7550-45-0	Titanium Tetrachloride			100
584-84-9	Toluene 2,4-Diisocyanate			500
91-08-7	Toluene 2,6-Diisocyanate			100
110-57-6	Trans-1,4-Dichlorobutene			500
1031-47-6	Triamiphos			500/10,000
24017-47-8	Triazofos			500
76-02-8	Trichloroacetyl Chloride			500
115-21-9	Trichloroethylsilane			500
327-98-0	Trichloronate			500
98-13-5	Trichlorophenylsilane			500
1558-25-4	Trichloro(Chloromethyl)Silane			100
27137-85-5	Trichloro(Dichlorophenyl) Silane			500
998-30-1	Triethoxysilane			500
75-77-4	Trimethylchlorosilane			1,000
824-11-3	Trimethylolpropane Phosphite			100/10,000
1066-45-1	Trimethyltin Chloride			500/10,000
639-58-7	Triphenyltin Chloride			500/10,000
555-77-1	Tris(2-Chloroethyl)Amine			100
2001-95-8	Valinomycin			1,000/10,000
1314-62-1	Vanadium Pentoxide			100/10,000
108-05-4	Vinyl Acetate Monomer			1,000
81-81-2	Warfarin			500/10,000
129-06-6	Warfarin Sodium			100/10,000
28347-	Xylylene Dichloride			100/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
13-9				
58270-08-9	Zinc, Dichloro(4,4-Dimethyl-5((((Methylamino)Carbonyl) Oxy)Imino)Pentanenitrile)-, (T-4)-			100/10,000
1314-84-7	Zinc Phosphide			500

Appendix B to Part 355 - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities

[CAS Number Order]

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
0	Organorhodium Complex (PMN-82-147)			10/10,000
50-00-0	Formaldehyde			500
50-07-7	Mitomycin C			500/10,000
50-14-6	Ergocalciferol			1,000/10,000
51-21-8	Fluorouracil			500/10,000
51-75-2	Mechlorethamine			10
51-83-2	Carbachol Chloride			500/10,000
54-11-5	Nicotine			100
54-62-6	Aminopterin			500/10,000
55-91-4	Isofluorphate			100
56-25-7	Cantharidin			100/10,000
56-38-2	Parathion			100
56-72-4	Coumaphos			100/10,000
57-14-7	Dimethylhydrazine			1,000
57-24-9	Strychnine			100/10,000
57-47-6	Physostigmine			100/10,000
57-57-8	Propiolactone, Beta-			500
57-64-7	Physostigmine, Salicylate (1:1)			100/10,000
57-74-9	Chlordane			1,000
58-36-6	Phenoxarsine, 10,10′-Oxydi-			500/10,000
58-89-9	Lindane			1,000/10,000
59-88-1	Phenylhydrazine Hydrochloride			1,000/10,000
60-34-4	Methyl Hydrazine			500
60-41-3	Strychnine sulfate			100/10,000
60-51-5	Dimethoate			500/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
62-38-4	Phenylmercury Acetate			500/10,000
62-53-3	Aniline			1,000
62-73-7	Dichlorvos			1,000
62-74-8	Sodium Fluoroacetate			10/10,000
62-75-9	Nitrosodimethylamine			1,000
64-00-6	Phenol, 3-(1-Methylethyl)-, Methylcarbamate			500/10,000
64-86-8	Colchicine			10/10,000
65-30-5	Nicotine sulfate			100/10,000
66-81-9	Cycloheximide			100/10,000
67-66-3	Chloroform			10,000
70-69-9	Propiophenone, 4-Amino-			100/10,000
71-63-6	Digitoxin			100/10,000
72-20-8	Endrin			500/10,000
74-83-9	Methyl Bromide			1,000
74-90-8	Hydrocyanic Acid			100
74-93-1	Methyl Mercaptan			500
75-15-0	Carbon Disulfide			10,000
75-21-8	Ethylene Oxide			1,000
75-44-5	Phosgene			10
75-55-8	Propyleneimine			10,000
75-56-9	Propylene Oxide			10,000
75-74-1	Tetramethyllead			100
75-77-4	Trimethylchlorosilane			1,000
75-78-5	Dimethyldichlorosilane			500
75-79-6	Methyltrichlorosilane			500
75-86-5	Acetone Cyanohydrin			1,000
76-02-8	Trichloroacetyl Chloride			500
77-47-4	Hexachlorocyclopentadiene			100
77-78-1	Dimethyl Sulfate			500
77-81-6	Tabun			10
78-00-2	Tetraethyllead			100
78-34-2	Dioxathion			500
78-53-5	Amiton			500
78-71-7	Oxetane, 3,3-Bis(Chloromethyl)-			500
78-82-0	Isobutyronitrile			1,000
78-94-4	Methyl Vinyl Ketone			10
78-97-7	Lactonitrile			1,000
79-06-1	Acrylamide			1,000/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
79-11-8	Chloroacetic Acid			100/10,000
79-19-6	Thiosemicarbazide			100/10,000
79-21-0	Peracetic Acid			500
79-22-1	Methyl Chloroformate			500
80-63-7	Methyl 2-Chloroacrylate			500
81-81-2	Warfarin			500/10,000
82-66-6	Diphacinone			10/10,000
86-50-0	Azinphos-Methyl			10/10,000
86-88-4	ANTU			500/10,000
88-05-1	Aniline, 2,4,6-Trimethyl-			500
88-85-7	Dinoseb			100/10,000
91-08-7	Toluene 2,6-Diisocyanate			100
95-48-7	Cresol, o-			1,000/10,000
98-05-5	Benzenearsonic Acid			10/10,000
98-07-7	Benzotrichloride			100
98-13-5	Trichlorophenylsilane			500
98-16-8	Benzenamine, 3-(Trifluoromethyl)-			500
98-87-3	Benzal Chloride			500
98-95-3	Nitrobenzene			10,000
99-98-9	Dimethyl-p-Phenylenediamine			10/10,000
100-14-1	Benzene, 1-(Chloromethyl)-4-Nitro-			500/10,000
100-44-7	Benzyl Chloride			500
102-36-3	Isocyanic Acid, 3,4-Dichlorophenyl Ester			500/10,000
103-85-5	Phenylthiourea			100/10,000
106-89-8	Epichlorohydrin			1,000
106-96-7	Propargyl Bromide			10
107-02-8	Acrolein			500
107-07-3	Chloroethanol			500
107-11-9	Allylamine			500
107-12-0	Propionitrile			500
107-13-	Acrylonitrile			10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
1				
107-15-3	Ethylenediamine			10,000
107-16-4	Formaldehyde Cyanohydrin			1,000
107-18-6	Allyl Alcohol			1,000
107-30-2	Chloromethyl Methyl Ether			100
107-44-8	Sarin			10
107-49-3	TEPP			100
108-05-4	Vinyl Acetate Monomer			1,000
108-23-6	Isopropyl Chloroformate			1,000
108-91-8	Cyclohexylamine			10,000
108-95-2	Phenol			500/10,000
108-98-5	Thiophenol			500
109-61-5	Propyl Chloroformate			500
109-77-3	Malononitrile			500/10,000
110-00-9	Furan			500
110-57-6	Trans-1,4-Dichlorobutene			500
110-89-4	Piperidine			1,000
111-44-4	Dichloroethyl Ether			10,000
111-69-3	Adiponitrile			1,000
115-21-9	Trichloroethylsilane			500
115-26-4	Dimefox			500
115-29-7	Endosulfan			10/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
115-90-2	Fensulfothion			500
116-06-3	Aldicarb			100/10,000
119-38-0	Isopropylmethyl-pyrazolyl Dimethylcarbamate			500
123-31-9	Hydroquinone			500/10,000
123-73-9	Crotonaldehyde, (E)-			1,000
124-65-2	Sodium Cacodylate			100/10,000
124-87-8	Picrotoxin			500/10,000
126-98-7	Methacrylonitrile			500
129-00-0	Pyrene			1,000/10,000
129-06-6	Warfarin Sodium			100/10,000
140-29-4	Benzyl Cyanide			500
140-76-1	Pyridine, 2-Methyl-5-Vinyl-			500
141-66-2	Dicrotophos			100
143-33-9	Sodium Cyanide (Na(CN))			100
144-49-0	Fluoroacetic Acid			10/10,000
149-74-6	Dichloromethylphenylsilane			1,000
151-38-2	Methoxyethylmercuric Acetate			500/10,000
151-50-8	Potassium Cyanide			100
151-56-4	Ethyleneimine			500
152-16-9	Diphosphoramide, Octamethyl-			100
297-78-9	Isobenzan			100/10,000
297-97-2	Thionazin			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
298-00-0	Parathion-Methyl			100/10,000
298-02-2	Phorate			10
298-04-4	Disulfoton			500
300-62-9	Amphetamine			1,000
302-01-2	Hydrazine			1,000
309-00-2	Aldrin			500/10,000
315-18-4	Mexacarbate			500/10,000
316-42-7	Emetine, Dihydrochloride			1/10,000
327-98-0	Trichloronate			500
353-42-4	Boron Trifluoride Compound With Methyl Ether (1:1)			1,000
359-06-8	Fluoroacetyl Chloride			10
371-62-0	Ethylene Fluorohydrin			10
379-79-3	Ergotamine Tartrate			500/10,000
465-73-6	Isodrin			100/10,000
470-90-6	Chlorfenvinfos			500
502-39-6	Methylmercuric Dicyanamide			500/10,000
504-24-5	Pyridine, 4-Amino-			500/10,000
505-60-2	Mustard Gas			500
506-61-6	Potassium Silver Cyanide			500
506-68-3	Cyanogen Bromide			500/10,000
506-78-5	Cyanogen Iodide			1,000/10,000
509-14-8	Tetranitromethane			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
514-73-8	Dithiazanine Iodide			500/10,000
534-07-6	Bis(Chloromethyl) Ketone			10/10,000
534-52-1	Dinitrocresol			10/10,000
535-89-7	Crimidine			100/10,000
538-07-8	Ethylbis(2-Chloroethyl)Amine			500
541-25-3	Lewisite			10
541-53-7	Dithiobiuret			100/10,000
542-76-7	Propionitrile, 3-Chloro-			1,000
542-88-1	Chloromethyl Ether			100
542-90-5	Ethylthiocyanate			10,000
555-77-1	Tris(2-Chloroethyl)Amine			100
556-61-6	Methyl Isothiocyanate			500
556-64-9	Methyl Thiocyanate			10,000
558-25-8	Methanesulfonyl Fluoride			1,000
563-12-2	Ethion			1,000
563-41-7	Semicarbazide Hydrochloride			1,000/10,000
584-84-9	Toluene 2,4-Diisocyanate			500
594-42-3	Perchloromethylmercaptan			500
597-64-8	Tetraethyltin			100
614-78-8	Thiourea, (2-Methylphenyl)-			500/10,000
624-83-9	Methyl Isocyanate			500
627-11-2	Chloroethyl Chloroformate			1,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
630-60-4	Ouabain			100/10,000
639-58-7	Triphenyltin Chloride			500/10,000
640-19-7	Fluoroacetamide			100/10,000
644-64-4	Dimetilan			500/10,000
675-14-9	Cyanuric Fluoride			100
676-97-1	Methyl Phosphonic Dichloride			100
696-28-6	Phenyl Dichloroarsine			500
760-93-0	Methacrylic Anhydride			500
786-19-6	Carbophenothion			500
814-49-3	Diethyl Chlorophosphate			500
814-68-6	Acrylyl Chloride			100
824-11-3	Trimethylolpropane Phosphite			100/10,000
900-95-8	Stannane, Acetoxytriphenyl-			500/10,000
919-86-8	Demeton-S-Methyl			500
920-46-7	Methacryloyl Chloride			100
944-22-9	Fonofos			500
947-02-4	Phosfolan			100/10,000
950-10-7	Mephosfolan			500
950-37-8	Methidathion			500/10,000
991-42-4	Norbormide			100/10,000
998-30-1	Triethoxysilane			500
999-81-5	Chlormequat Chloride			100/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
1031-47-6	Triamiphos			500/10,000
1066-45-1	Trimethyltin Chloride			500/10,000
1122-60-7	Nitrocyclohexane			500
1124-33-0	Pyridine, 4-Nitro-,1-Oxide			500/10,000
1129-41-5	Metolcarb			100/10,000
1303-28-2	Arsenic Pentoxide			100/10,000
1306-19-0	Cadmium Oxide			100/10,000
1314-62-1	Vanadium Pentoxide			100/10,000
1314-84-7	Zinc Phosphide			500
1327-53-3	Arsenous Oxide			100/10,000
1397-94-0	Antimycin A			1,000/10,000
1420-07-1	Dinoterb			500/10,000
1464-53-5	Diepoxybutane			500
1558-25-4	Trichloro(Chloromethyl)Silane			100
1563-66-2	Carbofuran			10/10,000
1600-27-7	Mercuric Acetate			500/10,000
1622-32-8	Ethanesulfonyl Chloride, 2-Chloro-			500
1752-30-3	Acetone Thiosemicarbazide			1,000/10,000
1910-42-5	Paraquat Dichloride			10/10,000
1982-47-4	Chloroxuron			500/10,000
2001-95-8	Valinomycin			1,000/10,000
2032-65-7	Methiocarb			500/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
2074-50-2	Paraquat Methosulfate			10/10,000
2097-19-0	Phenylsilatrane			100/10,000
2104-64-5	EPN			100/10,000
2223-93-0	Cadmium Stearate			1,000/10,000
2231-57-4	Thiocarbazide			1,000/10,000
2238-07-5	Diglycidyl Ether			1,000
2275-18-5	Prothoate			100/10,000
2497-07-6	Oxydisulfoton			500
2524-03-0	Dimethyl Phosphorochloridothioate			500
2540-82-1	Formothion			100
2570-26-5	Pentadecylamine			100/10,000
2587-90-8	Phosphorothioic Acid, O,O-Dimethyl-S-(2-Methylthio) Ethyl Ester			500
2631-37-0	Promecarb			500/10,000
2636-26-2	Cyanophos			1,000
2642-71-9	Azinphos-Ethyl			100/10,000
2665-30-7	Phosphonothioic Acid, Methyl-, O-(4-Nitrophenyl) O-Phenyl Ester			500
2703-13-1	Phosphonothioic Acid, Methyl-, O-Ethyl O-(4-(Methylthio)Phenyl) Ester			500
2757-18-8	Thallous Malonate			100/10,000
2763-96-4	Muscimol			500/10,000
2778-04-3	Endothion			500/10,000
3037-72-7	Silane, (4-Aminobutyl)Diethoxymethyl-			1,000
3254-63-5	Phosphoric Acid, Dimethyl 4-(Methylthio)Phenyl Ester			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
3569-57-1	Sulfoxide, 3-Chloropropyl Octyl			500
3615-21-2	Benzimidazole, 4,5-Dichloro-2-(Trifluoromethyl)-			500/10,000
3689-24-5	Sulfotep			500
3691-35-8	Chlorophacinone			100/10,000
3734-97-2	Amiton Oxalate			100/10,000
3735-23-7	Methyl Phenkapton			500
3878-19-1	Fuberidazole			100/10,000
4044-65-9	Bitoscanate			500/10,000
4098-71-9	Isophorone Diisocyanate			500
4104-14-7	Phosacetim			100/10,000
4170-30-3	Crotonaldehyde			1,000
4301-50-2	Fluenetil			100/10,000
4418-66-0	Phenol, 2,2′-Thiobis(4-Chloro-6-Methyl)-			100/10,000
4835-11-4	Hexamethylenediamine, N,N′-Dibutyl-			500
5344-82-1	Thiourea, (2-Chlorophenyl)-			100/10,000
5836-29-3	Coumatetralyl			500/10,000
6533-73-9	Thallous Carbonate			100/10,000
6923-22-4	Monocrotophos			10/10,000
7446-09-5	Sulfur Dioxide			500
7446-11-9	Sulfur Trioxide			100
7446-18-6	Thallous Sulfate			100/10,000
7487-94-7	Mercuric Chloride			500/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
7550-45-0	Titanium Tetrachloride			100
7580-67-8	Lithium Hydride			100
7631-89-2	Sodium Arsenate			1,000/10,000
7637-07-2	Boron Trifluoride			500
7647-01-0	Hydrogen Chloride (gas only)			500
7664-39-3	Hydrogen Fluoride			100
7664-41-7	Ammonia			500
7664-93-9	Sulfuric Acid			1,000
7697-37-2	Nitric Acid			1,000
7719-12-2	Phosphorus Trichloride			1,000
7722-84-1	Hydrogen Peroxide (Conc >52%)			1,000
7723-14-0	Phosphorus			100
7726-95-6	Bromine			500
7778-44-1	Calcium Arsenate			500/10,000
7782-41-4	Fluorine			500
7782-50-5	Chlorine			100
7783-00-8	Selenious Acid			1,000/10,000
7783-06-4	Hydrogen Sulfide			500
7783-07-5	Hydrogen Selenide			10
7783-60-0	Sulfur Tetrafluoride			100
7783-70-2	Antimony Pentafluoride			500
7783-80-4	Tellurium Hexafluoride			100

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
7784-34-1	Arsenous Trichloride			500
7784-42-1	Arsine			100
7784-46-5	Sodium Arsenite			500/10,000
7786-34-7	Mevinphos			500
7791-12-0	Thallous Chloride			100/10,000
7791-23-3	Selenium Oxychloride			500
7803-51-2	Phosphine			500
8001-35-2	Camphechlor			500/10,000
8065-48-3	Demeton			500
10025-73-7	Chromic Chloride			1/10,000
10025-87-3	Phosphorus Oxychloride			500
10026-13-8	Phosphorus Pentachloride			500
10028-15-6	Ozone			100
10031-59-1	Thallium Sulfate			100/10,000
10102-18-8	Sodium Selenite			100/10,000
10102-20-2	Sodium Tellurite			500/10,000
10102-43-9	Nitric Oxide			100
10102-44-0	Nitrogen Dioxide			100
10124-50-2	Potassium Arsenite			500/10,000
10140-87-1	Ethanol, 1,2-Dichloro-, Acetate			1,000
10210-68-1	Cobalt Carbonyl			10/10,000
10265-92-6	Methamidophos			100/10,000

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
10294-34-5	Boron Trichloride			500
10311-84-9	Dialifor			100/10,000
10476-95-6	Methacrolein Diacetate			1,000
12002-03-8	Paris Green			500/10,000
12108-13-3	Manganese, Tricarbonyl Methylcyclopentadienyl			100
13071-79-9	Terbufosh			100
13171-21-6	Phosphamidon			100
13194-48-4	Ethoprophos			1,000
13410-01-0	Sodium Selenate			100/10,000
13450-90-3	Gallium Trichloride			500/10,000
13463-39-3	Nickel Carbonyl			1
13463-40-6	Iron, Pentacarbonyl-			100
14167-18-1	Salcomine			500/10,000
15271-41-7	Bicyclo[2.2.1]Heptane-2-Carbonitrile, 5-Chloro-6-((((Methylamino)Carbonyl)Oxy)Imino)-, (1s-(1-alpha,2-beta,4-alpha,5-alpha,6E))-			500/10,000
16752-77-5	Methomyl			500/10,000
17702-41-9	Decaborane(14)			500/10,000
17702-57-7	Formparanate			100/10,000
19287-45-7	Diborane			100
19624-22-7	Pentaborane			500
20830-75-5	Digoxin			10/10,000
20859-73-8	Aluminum Phosphide			500
21548-	Fosthietan			500

CAS No.	Chemical name	Heading & Values Purposely Omitted	Heading & Values Purposely Omitted	Threshold planning quantity (pounds)
32-3				
21609-90-5	Leptophos			500/10,000
21908-53-2	Mercuric Oxide			500/10,000
21923-23-9	Chlorthiophos			500
22224-92-6	Fenamiphos			10/10,000
23135-22-0	Oxamyl			100/10,000
23422-53-9	Formetanate Hydrochloride			500/10,000
23505-41-1	Pirimifos-Ethyl			1,000
24017-47-8	Triazofos			500
24934-91-6	Chlormephos			500
26419-73-8	Carbamic Acid, Methyl-, O-(((2,4-Dimethyl-1, 3-Dithiolan-2-yl)Methylene)Amino)-			100/10,000
26628-22-8	Sodium Azide ($Na(N_3)$)			500
27137-85-5	Trichloro(Dichlorophenyl)Silane			500
28347-13-9	Xylylene Dichloride			100/10,000
28772-56-7	Bromadiolone			100/10,000
30674-80-7	Methacryloyloxyethyl Isocyanateh			100
39196-18-4	Thiofanox			100/10,000
50782-69-9	Phosphonothioic Acid, Methyl-, S-(2-(Bis(1-Methylethyl)Amino)Ethyl) O-Ethyl Ester			100
53558-25-1	Pyriminil			100/10,000
58270-08-9	Zinc, Dichloro(4,4-Dimethyl-5((((Methylamino) Carbonyl)Oxy)Imino)Pentanenitrile)-, (T-4)-			100/10,000
62207-76-5	Cobalt, ((2,2′-(1,2-Ethanediylbis (Nitrilomethylidyne)) Bis(6-Fluorophenolato)) (2-)-N,N′,O,O′)-			100/10,000