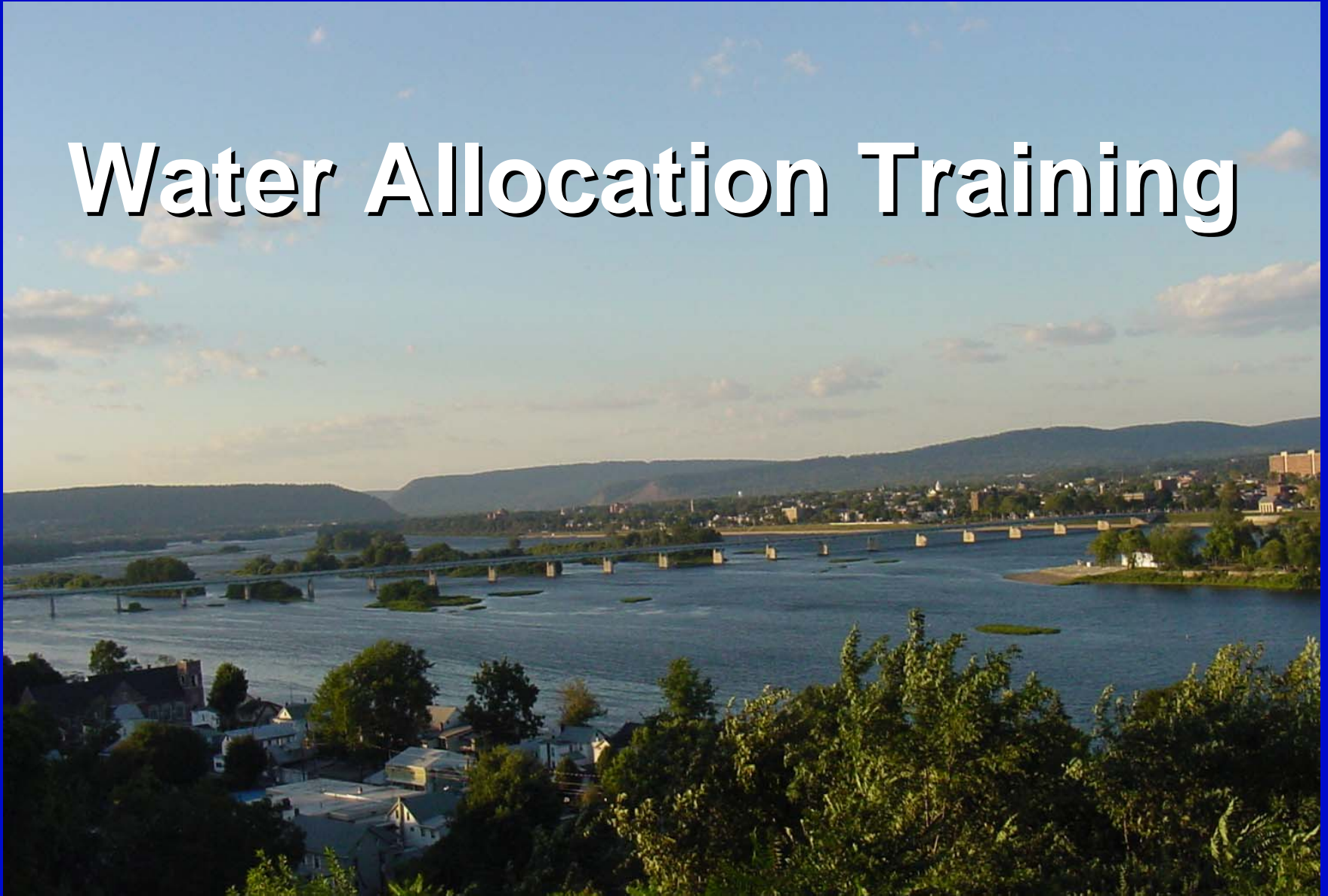


Water Allocation Training



Water Allocation Training

Watershed Management Water Allocation Training

February 28, 2006 Harrisburg SCRO

March 13, 2006 Cranberry Township

Training Objectives:

Provide a general overview of the
Water Allocation permitting
program

Water Rights Act 1939

- Effective June 24, 1939
- Surface Water Only
- Definitions
 - Acquisition and acquisition of water
 - Public Water Supply Agency
 - Water Rights
- Orders of Confirmation within one year

Water Rights Act 1939

- Permits required for new or increased withdrawals
- Findings before issuance of permit
- Permit Conditions
- Permit Compliance Report

Acquisition

The act of acquiring water rights. Acquire shall mean to secure or become vested with rights either by purchase, lease, gift, devise, adverse possession, prescription, eminent domain, waiver of damages, settlement of damages, appropriation or otherwise.

Acquisition of Water

- Interconnection between a permit holder and a buying PWS (aka consecutive system)
- Commonwealth Court decision that affirms the requirement for permit
- Common nomenclature is Subsidiary Permit

Water Rights

The right to take or divert water from any rivers, streams, natural lakes and ponds or other surface waters within or partly within the Commonwealth of Pennsylvania

Legal Opinions and Decisions have included springs, river wells, interconnections with SW PWS (subsidiary)

Public Water Supply Agency (PWSA)

Any corporation or municipal or quasi-municipal corporation, district or authority incorporated under the laws of Pennsylvania with the power, authority, right or franchise to serve water to the public in all or part of any municipal or political subdivision of the Commonwealth of Pennsylvania.

Public Water Supply Agency

- Municipal
- Municipal Authorities
- Private Investor Owned regulated by PUC operating under a Certificate of Public Convenience
- Incorporated Water Associations

Public Water Supply Agency does not include:

- Unincorporated Water Associations
- Mobile Home Parks
- BVRB systems (Bottled, Vended, Retail and Bulk Water Hauling Systems)

Orders Of Confirmation

- PWSA to file within one year of effective date of Act a record upon which prior acquisition was lawfully accomplished.
- Prior compliance with 1937 Act deemed compliance with 1939 Act.
- Nomenclature added by WPRB.

Water Acquisition Record

- Public record of all issued Orders and Permits as required by Section 4 of the Act
- Includes list of all PWSA not holding a valid Permit
- Housed in WUDS database

Minimum Application Content

- Name of river, stream water is to be taken including necessity
- Amount need for present purpose and future need
- Municipality and the population to be served
- Plan of development or use of the water, including impounding reservoir capacities
- Such other additional applicable information

Findings Required by the Act

- Proposed allocation will not conflict with water rights held by another PWSA
- Reasonably necessary for present and future needs
- Will not interfere with navigation
- Will not interfere with public safety
- Will not cause injury to the Commonwealth

Failure to Acquire

- PWSA should acquire water rights within one year after permit issuance or DEP may revoke.
- PWSA must begin actual taking of water within four years of issuance of permit or acquisition is null and void.
- Extension may be granted if events beyond control of permittee prevent actual taking within four years.

Eminent Domain

- Act provides Public Water Supply Agencies holding a permit may exercise the right of eminent domain with respect to appropriation of water and the water rights



Coordination # _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATERSHED CONSERVATION

APPLICATION FOR WATER ALLOCATION

<p>Before completing this form, read the step-by-step instructions provided with this Permit form.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left; padding: 2px;">DEP USE ONLY</th> </tr> <tr> <td style="padding: 2px;"> Application ID# (Assigned by DEP) _____ Stamp Date Application Received _____ </td> </tr> </table>	DEP USE ONLY	Application ID# (Assigned by DEP) _____ Stamp Date Application Received _____
DEP USE ONLY			
Application ID# (Assigned by DEP) _____ Stamp Date Application Received _____			

SECTION A. APPLICANT IDENTIFIER

Applicant Name: _____

SECTION B.

For public water supply agencies where a municipal authority and a municipality are involved jointly in the financing, operation and maintenance of the water system, describe the relationship of the municipal authority to the municipality and the respective duties and functions of each entity.

SECTION C. SOURCE(S) FOR WHICH ALLOCATION IS BEING REQUESTED:

Name of Source ¹	Quantity of Allocation Requested (gpd)	Type ²	Safe Yield ³ (gpd)	Location of Taking Point (latitude/longitude)
TOTAL				XXXXXXXXXXXXXXXXXXXX

¹ Applications for subsidiary allocation must be accompanied by a statement from the public water supply agency or person providing water that the proposed quantity is available for acquisition by the applicant where the contract amount does not agree with the allocation request. For applications for subsidiary allocation only, Column 4 (Safe Yield) need not be completed and Column 5 (Taking Point) should indicate location of interconnection. Subsidiary permits are issued on a peak month 30-day basis.

² Type: Peak Day - PD, Peak Month (30-day) - PM, Average Day - AD, Average Annual - AA, Other - O (explain).

³ Provide method of computation.

SECTION F. EXISTING SOURCES, INCLUDING WELLS:

Name of Source	Average Daily Withdrawal ¹ (gpd)	Days Use During Calendar Year	Safe Yield ² (d/ d)	Wells		Type of Use ³	Location of Taking Point (latitude/longitude)	Is Withdrawal from Source Metered? (Yes / No)
				Depth (ft)	Diameter (in)			
TOTAL				XXXX	XXXX	XXXX	XXXXXXXXXXXX	XXXXXXXXXXXX

¹ Provide as an attachment monthly Daily Water Withdrawal Reports for the most recent two calendar years.
² Provide method of computation or submit copies of test data.
³ Indicate if source is used on Regular-R, Auxiliary-A, or Emergency-E basis.

SECTION G. INTERCONNECTIONS WITH OTHER PUBLIC WATER SUPPLIERS:¹

a. List each interconnection with other public suppliers. (Mark with an "M" if metered and an "E" if for emergency use)

Name of Supplier	Average Quantity of Water Transferred (gpd)				Maximum Transfer Limit per Agreement (gpd)		Maximum Hydraulic Transfer Capability (gpd)	
	From Applicant		To Applicant		From Applicant	To Applicant	From Applicant	To Applicant
	Quantity	Days	Quantity	Days				
TOTAL		XX		XX	XXXXXXXX	XXXXXXXX		

¹ Provide for each interconnection with other public water suppliers, both existing and proposed, a copy of the current agreement governing the transfer of water.
b. Provide as an attachment the most recent two calendar-year history for each interconnection listed above, showing the date of meter reading and gallons transferred

SECTION H. INSTREAM INTAKES EXCLUDING DAMS (existing and/or proposed)

Name of Stream	Location (latitude/longitude)	Drainage Area (sq mi)

SECTION I. RAW WATER INTAKE DAMS AND STORAGE DAMS:¹ (existing and/or proposed)

Name of Stream	Year Built	Year Last Sedimentation Survey	Location (latitude/longitude)	Storage Capacity (mg)	Surface Area (acres)	Drainage Area (sq mi)	Release Works ²	
							Yes	No
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
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							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

¹ Include reservoir elevation-area-capacity curve for each dam as an attachment to this application.

² Does the dam have facilities to provide a release of water to the stream when water is not flowing over the spillway or top of dam? If yes, describe length, diameter, depth, valving, etc.

SECTION J. WATER TREATMENT PLANTS INCLUDING CHLORINATION FACILITIES (MARK WITH A "C"):					
Name	Location (latitude/longitude)	Design Capacity (gpd)	Permitted Capacity (gpd)	Average Daily Quantity Treated (gpd)	Average Daily Hours Operated (hrs)

Will present treatment plant(s) be expanded or a new plant constructed? Yes No If yes, has application been made for a public water supply permit? Yes No Date of application _____

SECTION K. TREATED STORAGE RESERVOIRS, STANDPIPES OR TANKS (existing "E" and/or proposed "P")					
Name	Location (latitude/longitude)	Type of Construction	Storage Capacity (gallons)	Is Reservoir Covered?	
				Yes	No
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
TOTAL	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX		XXX	XXX

SECTION N. QUANTITY OF WATER					
Quantity of water supplied in each of the past 10 calendar years: (If less than 10 years of data or no peak day is available, provide an explanation why it is not available)					
Year	Average Day (gallons)		Peak Day (gallons)		Peak/Average Ratio
	metered <input type="checkbox"/>	estimated <input type="checkbox"/>	metered <input type="checkbox"/>	estimated <input type="checkbox"/>	

SECTION O. WATER USE FOR MOST RECENT CALENDAR YEAR LISTED ABOVE:				
Type Use	Metered Connections		Nonmetered Connections	
	Number	Water Use (gpd)	Number	Water Use (gpd)
Domestic				
Commercial				
Industrial				
Institutional				
Bulk Sales to Other Suppliers				
Municipal (Identify Below)				
Other (Identify Below)				
Leakage and Loss				
TOTALS				\$
Identification of Municipal Uses: _____				

Identification of Other uses: _____				

SECTION P. NAMES AND ADDRESSES OF PUBLIC WATER SUPPLY AGENCIES
Provide the names and addresses of public water supply agencies or other users downstream of the source(s) which may be affected by the present or proposed acquisition(s).
Provide the names and addresses of public water supply agencies or other users upstream of the source(s) which may affect the present or proposed acquisition(s).

SECTION Q. METHODS BY WHICH THE PROPOSED ACQUISITION OF WATER RIGHTS OR WATER IS TO BE EFFECTED

Method or methods by which the proposed acquisition of water rights or water is to be effected, i.e., merger, consolidation, purchase, eminent domain, etc.

SECTION R. IMPACT OF THE PROPOSED ACQUISITION

Describe the impact the proposed acquisition will have on aquatic life and other instream uses and needs. Provide details and a copy of any biological, instream flow or other studies which have been completed on sources listed in Section C. Provide information as to which species of fish occur within the stream both above and below the point of withdrawal. A statement that no impacts are expected since the withdrawal has been occurring for the past X years is not an acceptable answer.

SECTION S. DESCRIPTION OF THE SYSTEM'S OPERATION

Describe the system's present and proposed future operation, including a description of major facilities, and all plans for any major future expansion, modification, or other alteration of facilities or addition of new service area.

SECTION T. TIMETABLE

Provide a timetable for the construction of facilities required to use the requested allocation. (Examples - new dam, new intake, new pipeline, new treatment plant, additions or modification, etc.)

SECTION U. DESCRIPTION OF PRESENT AND FUTURE WATER CONSERVATION PROGRAM

Describe the applicant's present and future water conservation program. The Department will review the program for the inclusion of the following items:

- (1) A continuing, scheduled program of public education utilizing public media and direct contact with customers to encourage water conservation.
- (2) A program in cooperation with local governments in the service area, to develop, adopt, and implement an ordinance requiring the use of flow-reduction devices in all new construction and remodeling work requiring a building permit.
- (3) Contact and consultation with significantly large multi-family residential, institutional, industrial, and commercial water users to encourage the implementation of all feasible water conservation measures.
- (4) Contact with plumbing, hardware, and/or plumbing fixture suppliers to encourage the sale and promotion of flow reduction equipment.
- (5) A program which incorporates water conservation requirements in service agreements with new users, particularly for residential subdivisions and industrial and/or commercial developers as well as existing users.
- (6) Installation of water meters to record water use by each individual household, commercial, industrial, or other user. How are apartment houses and other multiple dwelling units metered?
- (7) A systematic program to test meters measuring withdrawals from the source(s) on a regularly scheduled basis to insure their accuracy.
- (8) A program to test customer service meters on a regular schedule of inspection, repair, and replacement to insure their measuring accuracy. Indicate meter testing/replacement schedule, including the number of each size meter tested/replaced on an annual basis.

SECTION V. DESCRIPTION OF LEAK DETECTION PROGRAM

Provide a description of the applicant's present and future leak detection program. The Department will review the program for the inclusion of the following items:

- (1) A regular program to detect and correct water leakage in the system.
- (2) A program for installing, maintaining, and regularly reading measuring devices at strategic points in the water system so that leaks may be detected, isolated, and repaired.
- (3) A systematic program for the replacement and rehabilitation of transmission and distribution lines and facilities.
- (4) A system to maintain records of the actions taken to monitor, repair, and prevent system losses. Give details on record-keeping and review of system losses.
- (5) A regular schedule of valve and hydrant inspection for operability and leakage. Indicate the total number of hydrants and valves within the system and the percentage of each sounded and exercised on an annual basis.

SECTION W. DAILY OPERATIONS PLAN INCORPORATING A DROUGHT CONTINGENCY PLAN

Does the applicant have a daily operations plan incorporating a drought contingency plan? Provide a copy of the applicant's daily operations plan. The plan must include the following items.

- (1) Explanation of daily decisions on which sources are utilized.
- (2) Monitors to measure availability of water at the source(s).
- (3) Triggering levels to take actions during droughts.
- (4) Measures to be taken to conserve the available water supply.
- (5) Staged voluntary and mandatory water use restrictions.
- (6) The identification of available emergency sources or interconnections.
- (7) A means of enforcing the water use restrictions.

SECTION X. OVERALL SYSTEM MAP (PLEASE READ INSTRUCTIONS FOR THIS SECTION)

This application must be accompanied by an overall system map on 7.5 minute series USGS Quadrangle maps showing the locations of the present and proposed surface and groundwater sources of supply, including and labeling all pumping stations, purification and/or filter plants, reservoirs, wells, springs, booster stations, standpipes, transmission mains and interconnections with other suppliers, and an outline of the present and proposed future service area. The map must also show service areas of wastewater treatment plants, their points of discharge, and a delineation of areas served by on-lot septic systems, if applicable.

SECTION Y. CERTIFICATE AND SIGNATURE

AFFIDAVIT

Commonwealth of Pennsylvania, County Of _____

I, _____, being duly sworn, according to law, depose and say that I (am the applicant) (am an officer or official of the applicant) (have the authority to make this application) and that the plans, reports and documents submitted as part of the application are true and correct to the best of my knowledge and belief.

Sworn and Subscribed to before me this

_____ Day Of _____ 19 _____

SIGNATURE OF RESPONSIBLE OFFICIAL

NOTARY PUBLIC

THE SECTION BELOW IS TO BE COMPLETED BY THE ENGINEER AUTHORIZED BY THE APPLICANT TO PREPARE THIS APPLICATION

Name of Engineer and Firm			ENGINEER'S SEAL
Mailing Address			
Telephone Number	Fax Number	E-mail Address	

Section X MAP Requirement



Coordination # _____

**APPLICATION FOR WATER ALLOCATION
CHECKLIST FOR SUBMITTAL**

APPLICANT'S CHECKLIST

Please check the following list to make sure that you have included all the required information. Place a check mark in the column provided for all items completed and/or provided.

Failure to provide all of the requested information will delay the process of the application and may result in the application being placed ON HOLD with NO ACTION, or being considered withdrawn and the application file closed.

ENCLOSE THIS CHECKLIST WITH YOUR APPLICATION FORM.

*** FOR DEP USE ***
Application ID# _____
Stamp Date Application Received _____

	Requirement	Check / If Included
1.	Have you read all the instructions accompanying the application form prior to completing the form?	<input type="checkbox"/>
2.	Have all items been completed?	<input type="checkbox"/>
3.	Has additional information been provided, where required?	<input type="checkbox"/>
4.	Has application been signed and notarized?	<input type="checkbox"/>
5.	Has a specific quantity of allocation been requested for each source listed in Section C?	<input type="checkbox"/>
6.	Has required map been prepared and enclosed? (See instructions and application Section X). If the required map covering the following items is not included, the application is incomplete and will be returned to the applicant.	<input type="checkbox"/>
	Sources of Supply:	
	Wells	<input type="checkbox"/>
	Springs	<input type="checkbox"/>
	Reservoirs	<input type="checkbox"/>
	Interconnections	<input type="checkbox"/>
	Intakes	<input type="checkbox"/>
	Standpipes	<input type="checkbox"/>
	Present Service Area	<input type="checkbox"/>
	Future Service Area	<input type="checkbox"/>
	Wastewater System Service Area	<input type="checkbox"/>
	Points of Discharge	<input type="checkbox"/>
7.	Has application fee been enclosed? (\$25 Check or money order payable to the Commonwealth of Pennsylvania)	<input type="checkbox"/>
8.	Have you complied with the requirements for Municipal Notification? (see page 10 of Instructions)	<input type="checkbox"/>

A “complete” Water Allocation Permit Application includes:

- \$25.00 check payable to Commonwealth of PA
- General Information Form (GIF)
- Completed application with supporting information
- Application signed, notarized, signed and sealed by P.E.
- Act 14 municipal, county and planning agency notification
- Eight (8) or more copies

Subject to MBG review timeframes:

- Total review timeframe = 245 days
 - Admin Complete Review = 20 days
 - Tech 1 Review = 90 days
 - Tech 2 Review = 45 days
 - Decision Review = 90 days

Water Allocation Application Review Process

- **Application received and reviewed for Administrative Completeness**
- **Publish PA Bulletin Notice**
- **Solicit comments from Review Agencies**
- **Technical review by regional TSS Staff**
- **Resolve technical issues and prepare WA permit**
- **Coordinate with RBCs (if applicable) prior to permit issuance**
- **Issue WA permit.**

Pre-Application
Conference



Submission of
Application

Request Additional Info

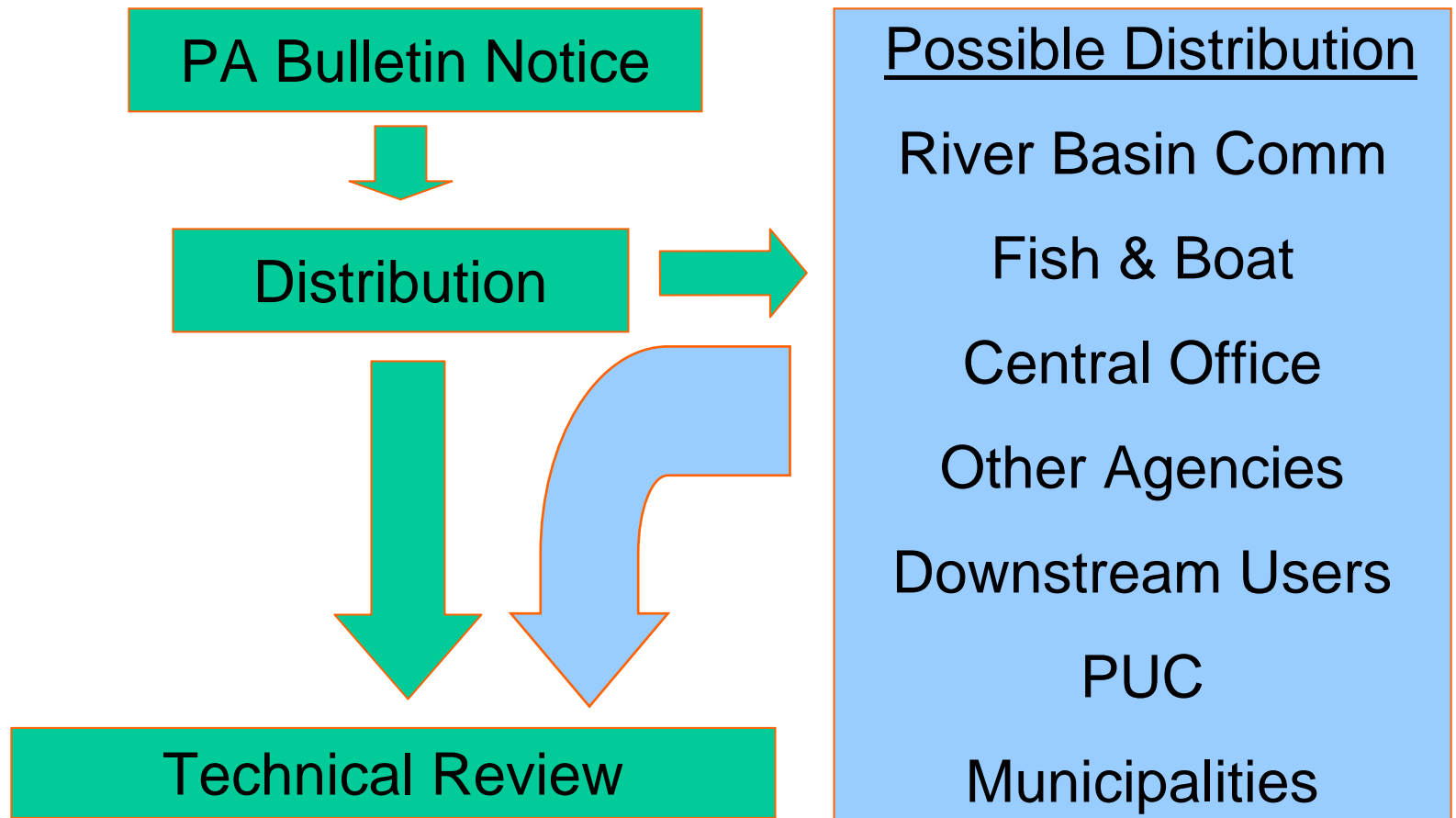


Administrative Completeness Review

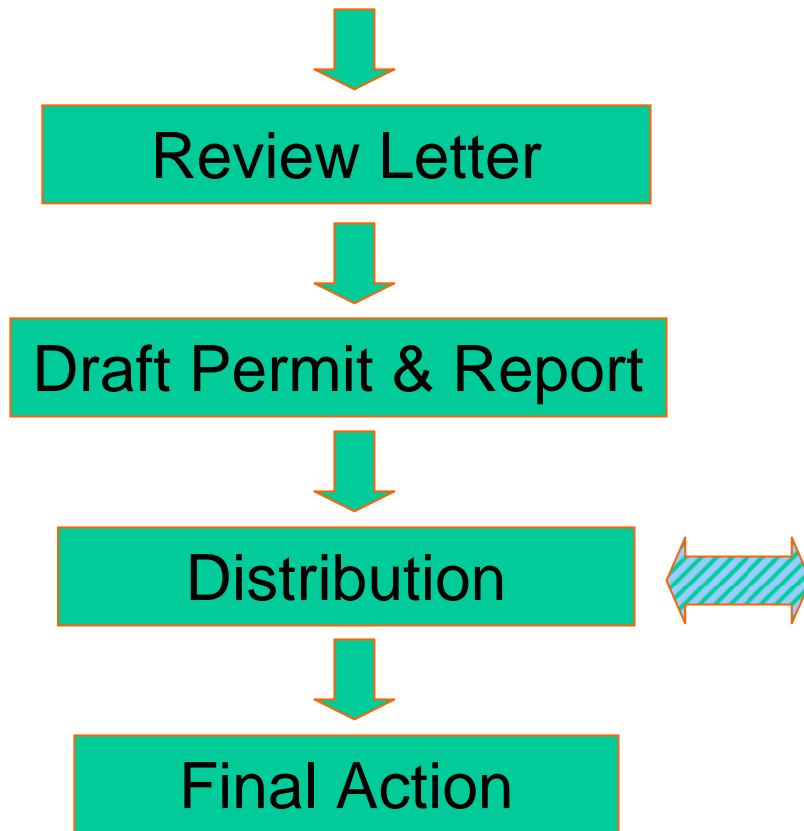
Administrative Completeness Details

- 👉 Application Forms and GIF Signed, sealed & notarized as needed
- 👉 Fee (currently \$25)
- 👉 Act 14 County and Municipal Notices
- 👉 Map relative to Section X of Application





- Technical Review Details
- ☞ Verify Allocation requested is available (Safe yields, conflicts w/other users, other permit limitations)
 - ☞ Justification of Present and Future Needs
 - ☞ Environmental Reviews (Impacts & Mitigation)



- Possible Distribution
- River Basin Comm
 - Fish & Boat
 - Central Office
 - Other Agencies
 - Downstream Users
 - PUC
 - Municipalities

Administrative Review

- Determine if application is complete
- Send Administrative Complete / Incomplete letter
- Process permit fee
- Publish PA Bulletin Notice
- Send application to review agencies and request comments within 30 days

Review Agencies

- Internal DEP review (DWUP, DDS, WQM)
- Local municipalities and County Planning Agency
- PA Fish and Boat Commission
- US Army Corps of Engineers (navigation)
- DCNR (State Forest lands)
- PAGC (State Game lands)
- River Basin Commission
- Identified or Known Downstream Users
- Selling PWSA for Subsidiary Permits
- PUC
- Others?

Technical Review

- Population and Water Use
- Source Safe Yield including Diversions
- Demand vs. Supply
- Instream Flow Requirement
- Comments Received
- Seller's Capacity (subsidiary)
- Findings required by Act and Article 27

Population and Water Use

- 2000 U.S. Census data
- DWUP system population projections
- Annual Water Supply Reports
- Projected future connections
- Water use over past 10-years
- Act 537 data
- Unaccounted-for water loss

Source Safe Yield

- Water supply available during drought
- Reservoir yield analysis (Bulletin No. 7 – Long Duration Low Flow and draft rate method)
- River and stream intakes (reference gage, B15, 82-21 and future StreamStats)
- Springs (historical flow data?)

Diversions

- Intrabasin and Interbasin diversions
- River Basin Commission review and policies
- Sewage Treatment Plant discharges

Demand vs. Supply

- Allocation based on:
 - Population projections and water use data
 - 25-year planning period
 - Existing sources (surface, groundwater and interconnections)
 - Instream flow requirements

Instream Flow Requirements

- **Withdrawal $< 10\% Q_{7-10}$ = no impact**
- **May 1998 Instream Flow Study:**
 - Passby or conservation release based on acceptable habitat loss as determined by model
 - Applicable to reproducing trout streams with drainage areas < 100 square miles
 - Limited to Ridge & Valley Limestone, Ridge & Valley Freestone, Unglaciaded Plateau and Piedmont Upland Freestone
- **1992 PFBC Position Paper:**
 - A. 25% ADF = EV, HQ or reproducing trout streams
 - B. 20% ADF = All streams not included in A above
 - C. 15% ADF = AMD streams with some aquatic life
 - D. Q_{7-10} = Severely degraded streams or limestone streams where $Q_{7-10} > 25\% \text{ ADF}$

Instream Flow Requirements

- **IFIM –Instream Flow Incremental Methodology (future training sessions)**
- **Indicators of Hydrologic Alteration (under study)**

Findings Required by the Act

- Proposed allocation will not conflict with water rights held by another PWSA
- Reasonably necessary for present and future needs
- Will not interfere with navigation
- Will not interfere with public safety
- Will not cause injury to the Commonwealth

Article I, Section 27 of the Pennsylvania Constitution, as adopted in 1971

- The people have a right to clean air, pure water, and to the preservation of the natural scenic, historic, and esthetic values of the environment. Pennsylvania's public natural resources are the common property of all the people, including generations yet to come. As trustee of these resources, the Commonwealth shall conserve and maintain them for the benefit of all of the people.

Article I, Section 27 (continued)

- The DEP is required to measure its actions concerning issuance of a permit by the three point test announced in Payne et al. v. Kassab et al., This test is:
 - Was there compliance with all applicable statutes and regulations relevant to the protection of the Commonwealth's public natural resources?
 - Does the record demonstrate a reasonable effort to reduce environmental incursion to a minimum?
 - Does the environmental harm which will result from the challenged decision or action so clearly outweigh the benefits to be derived therefrom that to proceed further would be an abuse of discretion?

Permit Conditions

- Life – 25 years maximum (all)
- Measurement and reporting of withdrawals/purchases (all)
- Permit Compliance Report (all)
- Instream Flow Requirement measurement and reporting
- Source Development
- Leakage Loss Study
- Treated Storage Development Study

Permit Conditions (if appropriate)

- NPDES on stream discharges
- Reservoir pool measurement and reporting (reservoir IFR triggers)
- Subsidiary permit recognition
- Others?

Modification Orders

- Add new permit condition in case of conflicts
- Recognition Service Area Expansion – Analysis required to determine impact
- Recognition of Subsidiary permit
- **CANNOT** be used to increase Water Rights – New Application required



DAILY WATER WITHDRAWAL/INSTREAM FLOW REQUIREMENT REPORT

NAME-PUBLIC WATER SUPPLY AGENCY _____ COUNTY _____ WA Permit No. _____
 TELEPHONE NO. () _____ SF Permit ID _____
 Report for MONTH: _____ Year: _____ REPORT PREPARER SIGNATURE _____

Source ID	Name				
Day					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
TOTAL					
AVERAGE					
MAXIMUM					
MINIMUM					
DAYS USE					

Return completed form to: Division of Water Use Planning, P. O. Box 8555, Harrisburg, PA 17105-8555

Water Allocation Permit Compliance Report

- **Water Meter Management Program**
- **Leakage Loss Control Program**
- **Water Conservation Program**
- **Demand Reduction Program**
- **Drought Contingency Planning**
- **Reporting Requirements**

Water Meter Management

- **All sources metered**
- **Metered Ratio**
- **Residential/Domestic Per Capita Use**
- **Method of Accounting for Unmetered Uses**
- **Metered vs. Unmetered Connections**
- **Meter testing/Replacement Program**

Leakage Loss Control

- **Leakage Control program**
 - **Frequency**
 - **Methods and Equipment**
- **Hydrant and Valve Leakage Testing**
 - **Number Tested**
 - **Leaks Detected**
 - **Leaks Repaired**

Water Conservation Program

- **Water Conservation Information to Customers**
- **School Programs**
- **Major Water Users Demand Reduction**
- **Rate Structure**

Demand Reduction Program

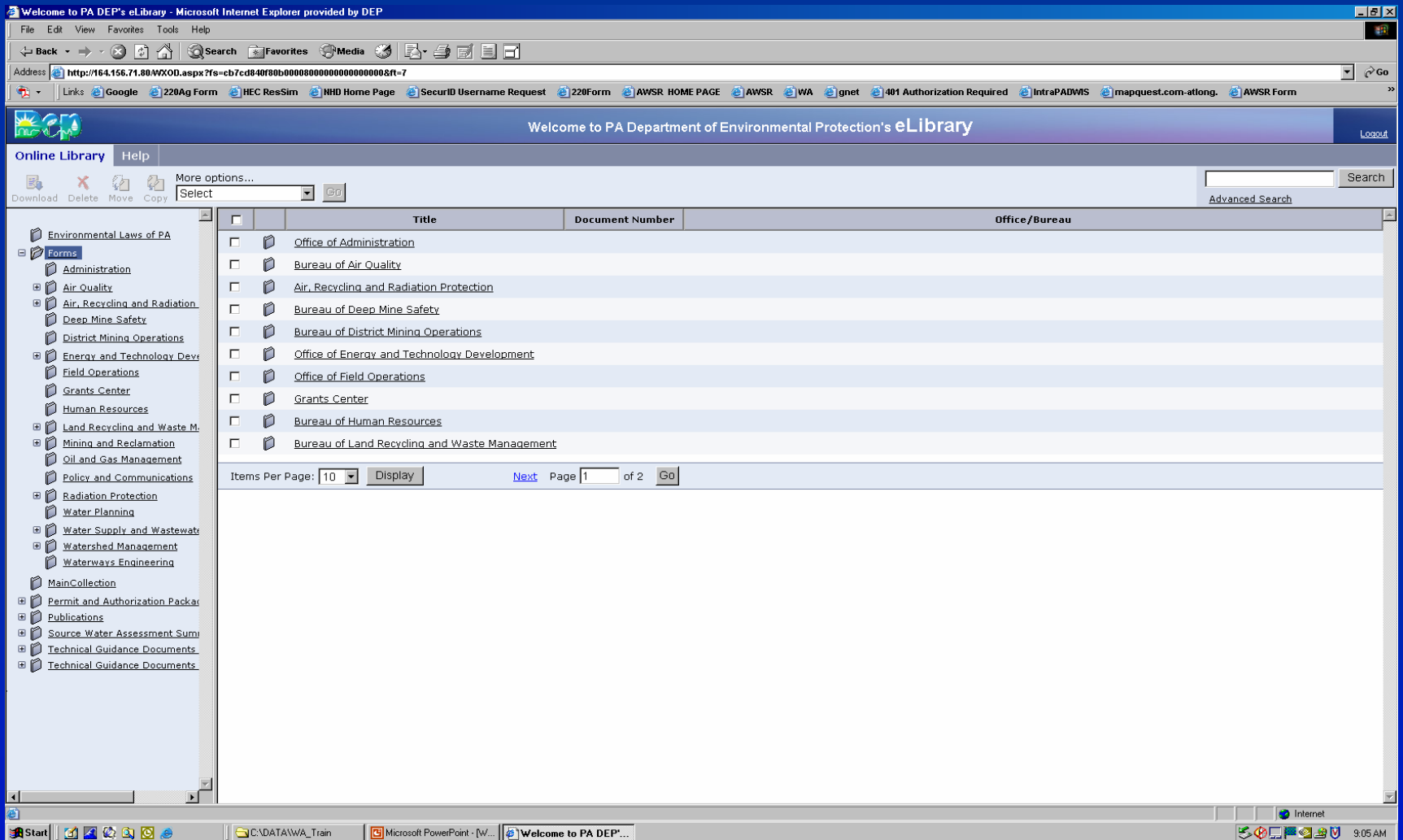
- **Water Saving Plumbing Fixtures**
- **Municipal Building Codes**
- **High Use Program**

Drought Contingency Planning

- **DCP to DEP every three years under Chapter 118.**
 - **Date of last plan**
 - **Responsible Official**
- **New Sources or Major Use Changes**

Reporting Requirements

- **Daily Water Withdrawal/Instream Flow Report**
- **Acquisition of Property**
- **Engineering Study**
- **Unaccounted for Water Loss Study (20 %)**
- **Treated/Finished Water Storage Study**
- **Reservoir Pool Elevation Reporting**



eLibrary - "Bureau of Watershed Management"

Internal Water Allocation Homepage

Water Allocation Program

Water Allocation Forms	Water Allocation Technical Guidance
Water Allocation Related Publications	Water Rights Statutes
Water Rights Case Law (coming soon)	Water Allocation Permit Applications Required (WORKLOAD)
Annual Water Supply Reports filed by Public Water Suppliers, 1997 to present	Low-Flow Statistics for Pennsylvania Streams
Public Utility Commission - Privately Owned and Municipal Water Utility Contacts	Instream Flow and Instream Flow Requirements
Municipal Authority General Information	Water Allocation Training, May - June 2005, State College PA
Local Government Officials Municipal Information	Chapter 108 Water Allocation Regulations
Environmental Hearing Board Water Allocation Cases under 3. Case Details Search Program Area select "Water Allocations"	Pennsylvania StreamStats for Drainage Area Determinations

Return to [BUREAU OF WATERSHED MANAGEMENT HOME PAGES](#)

Done Local intranet

http://intradep/bwm/waterallocation/water_allocation.htm

Water Allocation Future Projects

- Implement Secretary's Compliance and Enforcement Initiative
- Develop Program Regulations and Fees
- Streamline Permit Review
- Reduction and Standardization of Water Allocation Report
- Electronic Reporting
- Implement GIS Applications (Yield Analysis Tool)

Water Allocation Training

Questions and comments?



Pennsylvania's New Water Management Law

Act 220- Water Resources Planning Act

Water Resources Planning Act Goals

- Develop an updated State Water Plan by 2008
- Create resource planning and partnership building among local, regional, state, interstate, federal and non-governmental entities.
- Identify environmental needs through data collection and redirecting of resources to meet local needs

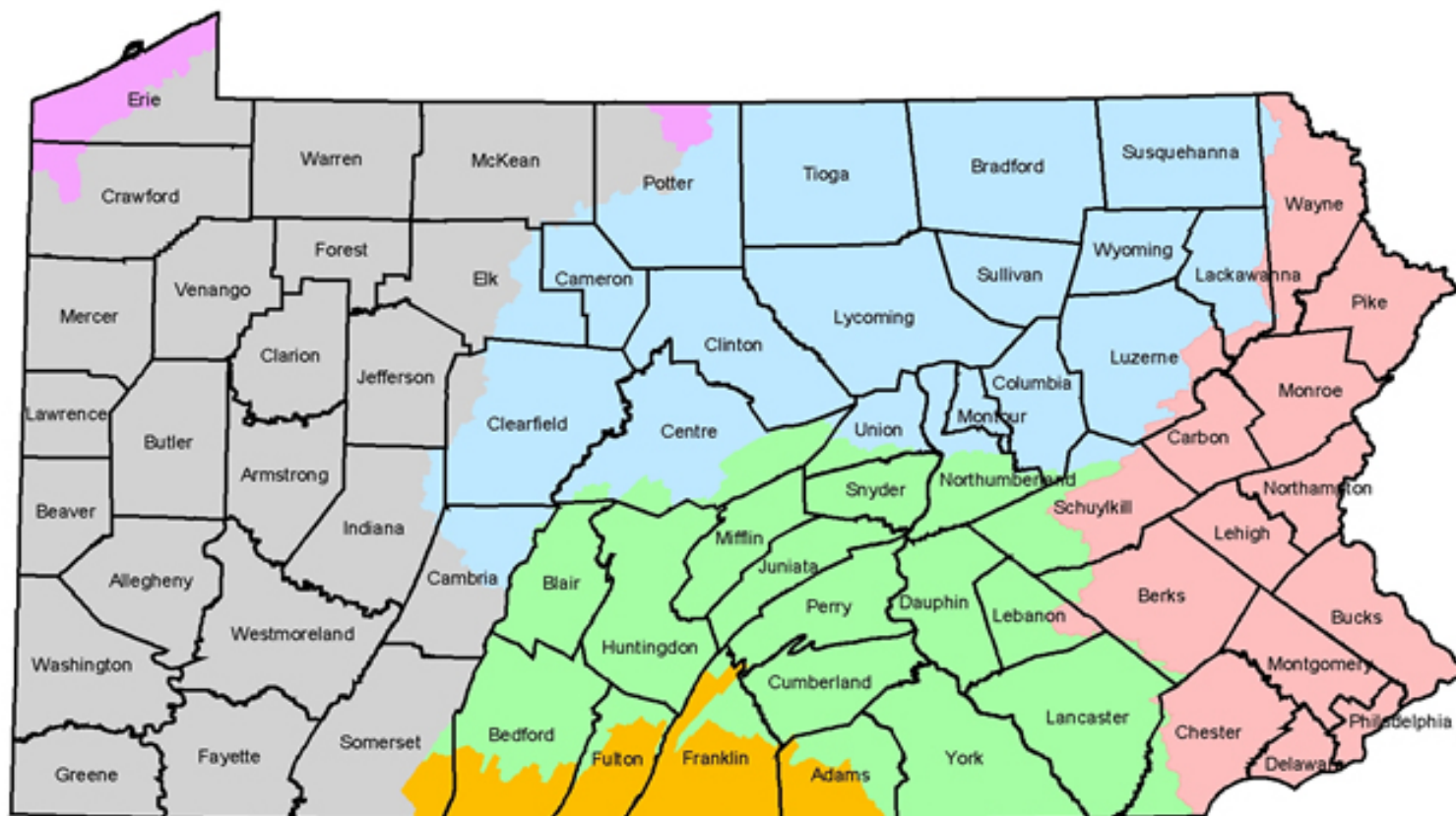
Act 220 Key Provisions

- Establishment of committees
 - Six regional and one state-wide
- Identify Critical Water Planning Areas and create Critical Area Resource Plans
- Registration of users of more than 10,000 gallons per day and begin yearly reporting.
- Establishment of voluntary conservation program

Contents of the State Water Plan

- Inventory of water resources, yields
- Projected needs, demands, problems
- Identification of critical planning areas
- Review of regulations, statutes , policies and institutional arrangements
- Recommendations for implementing actions, projects, programs or management activities

Regional Water Resource Planning Areas



- Counties
- Delaware River Basin
- West Branch, Upper, Middle Susquehanna and Chemung River Basins
- Juniata River, Lower Susquehanna River, Gunpowder, Northeast and Elk Creek Basins
- Ohio River Basin
- Lake Erie and Genesee River Basins
- Potomac River Basin

Critical Area Resource Plans

- More detailed plan based on “water budgeting”
- Establishment of Critical Water Planning Area Advisory Committee
- Existing and future beneficial uses
- Water availability evaluations
- Water quality issues
- Storm water and floodplain issues
- Alternatives to assure adequate supply

General Timeline for Act 220

- In Progress - Water Source Registration
- In Progress - Regional and Statewide Committee meetings
- 2004 to 2007: Public participation and Education and Outreach
- 2005 to 2006: Review of regulations and statute
- 2005 to 2007: Regional plans drafted
- 2007: Public comment on Draft Regional Plans
- 2007 to 2008: Revision of Regional Plans
- 2008: Public review of SWP final draft
- 2008: Final State Water Plan

Reports! Reports! Reports!

- PWS Annual Water Supply Report
- Daily Water Withdrawal/Instream Flow Report
- Water Allocation Permit Compliance Report
- DRBC Annual Monthly Withdrawal Report
- SRBC Registration
- Act 220 Registration

Act 220 Reporting Requirements

To avoid duplication of efforts, regulations implementing the periodic reporting requirements of this subsection shall provide that the requirements may be satisfied by the filing of discharge monitoring reports prepared under the Clean Streams Law, water supply reports prepared under the Safe Drinking Water Act, water withdrawal and use reports prepared and submitted pursuant to regulations adopted by the Delaware River Basin Commission and Susquehanna River Basin Commission, or other reports submitted under other applicable statutes and regulations, to the extent that the reports provide the required information. →→→→→→→→→→

Consolidation of Reporting to Reduce Paperwork Workload





COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATERSHED MANAGEMENT

DAILY WATER WITHDRAWAL / INSTREAM FLOW REQUIREMENT MONTHLY REPORT

Public Water Supply Agency Name _____ County _____ WA Permit No. _____

Source WUDS ID _____ Source Name _____ Month _____ Year _____

Day	Withdrawal , Gallons/Day			Time, 24-hour	Instream Flow , Gallons/Day			Reservoir Elev., FT MSL		
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
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Please complete the items on the reverse side of this form.

Annual Water Supply Report

**The 2005 Annual Water Supply
Report is due April 14, 2006**

Further Information or Questions

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