

Public Utilities/Infrastructure

Public utilities are those basic utilities provided for the most part by the municipal government, municipal authorities and other semi-public providers to insure the health, safety, and well being of the inhabitants of communities. Such utilities include water, sanitary sewer, electric service, natural gas and telecommunications. The availability, quality, and adequacy of these utilities are a most important factor in insuring orderly growth and development in each Municipality and in the County as a whole. This section reviews these basic services in Cambria County.

Water Service

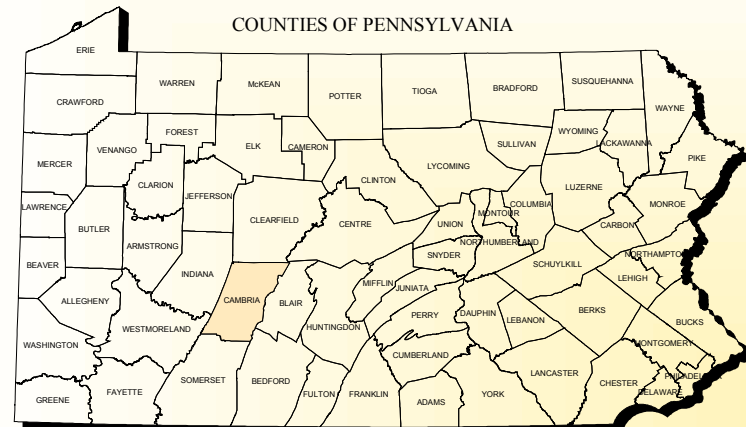
Public drinking water systems are divided into two (2) categories: community and non-community. A community water system (CWS) is a public drinking water system that serves at least 15 connections used by year-round residents or regularly serves at least 25 year-round residents. Examples of CWSs are municipal systems, authorities, and mobile home parks or residential developments with their own water supplies. Based on information provided through the Pennsylvania Department of Environmental Protection (PA DEP) there are 43 permitted active community water systems (47 in 2004) in Cambria County. They range from large multi-municipal systems such as the Greater Johnstown Water Authority, directly and indirectly serving over 50,000 persons, to a very small system like the Captain's Quarters that serves around 35 people.

A non-community water system (NC) is any system that does not fit the definition of a community water system. The PA DEP designates two (2) types of non-community systems: transient and non-transient. Transient water systems (TNC) serve a transient population such as people visiting a club, tavern, motel, restaurant, or park campground. Non-transient water systems (NTNC) serve at least 25 of the same individuals over six (6) months of the year. This water system includes schools, colleges, and workplaces that maintain their individual public water systems. Within Cambria County there are 34 active Transient Non-Community water systems, five (5) active Non-Transient Non-Community systems and one (1) active system classified as Vender Water Systems.

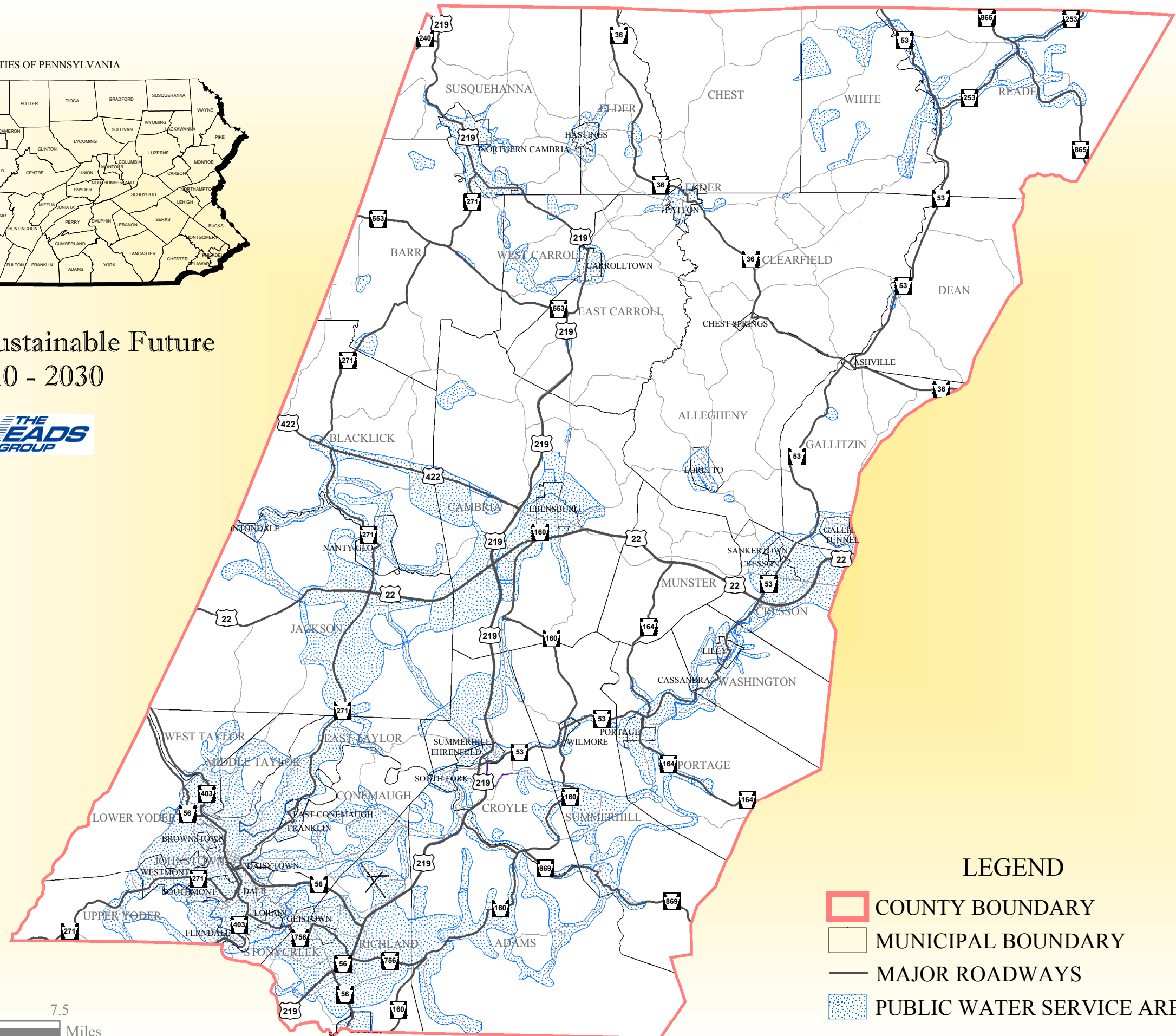
Cambria County contains a mostly urban population and most of this population base is located within the Johnstown and Ebensburg Urbanized Areas and smaller incorporated boroughs that are served by public water systems having adequate supply, treatment, and distribution systems. In addition to the Greater Johnstown Area, the availability of public drinking water is generally widespread across the Boroughs and Townships located in the central and southern portions of the County. The same cannot be said for the northern portion of the County where water services is generally provided in the Boroughs and other populated places and to the immediate surrounding areas. Water service is not widespread in the Townships in the northern region of the County. This rural population remains highly dependent upon small community water systems and individual wells which are potentially subject to the contamination of both surface and

ground water supply sources. Residents in all other areas of the County are supplied with private water wells.

The extent of water service in the southern and central portions of the county is influenced in part by the service expansion northward from larger water suppliers namely the Greater Johnstown Water Authority and the Highland Sewer and Water Authority. These larger regional Water Authorities provide direct service to customers as well as bulk water sales to smaller water authorities. The service areas of these public water supply systems are depicted on the Water Service Area Map.



Toward a Sustainable Future
2010 - 2030



LEGEND

- COUNTY BOUNDARY
- MUNICIPAL BOUNDARY
- MAJOR ROADWAYS
- PUBLIC WATER SERVICE AREA



CAMBRIA COUNTY PLANNING COMMISSION

401 CANDLELIGHT DR.
EBENSBURG, PA 15931

CAMBRIA COUNTY COMPREHENSIVE PLAN WATER SERVICE AREA



APRIL 2011

Community Water Systems Inventory

The Pennsylvania Department of Environmental Protection maintains an inventory of Public drinking water systems and provides public access to this information through the Drinking Water Reporting System (DWRS). The DWRS allows public access to public drinking water systems' sample history, inventory information and recent violation history.

Data for the Cambria County Community Water Systems Inventory was extracted from the 2010 PA DEP Drinking Water Reporting System which is updated annually and was prepared in accordance with the requirements mandated by the Pennsylvania Safe Drinking Water Act. The inventory, as presented in tabular form on the following table, and in the summary that follows it provides a brief overview of the 43 community water systems that serve Cambria County. The following database items are presented:

- System Name: The name of the public water system
- Public Water System Identification (PWSID): A unique seven (7) digit number assigned by the PA DEP to identify a public water system
- Service Area: The name of the municipality(ies) served by the public water system and whether they serve the entire area (ALL) or a portion (PARTIAL)
- Distribution User Rates: The average cost of water per 1,000 gallons in dollars and cents based on the sliding scale and water used. If an annual report is available, the total dollars billed to residential customers divided by the metered gallons sold to residential customers rounded to the nearest 1,000 gallons.
- Owner Type: The legal registered ownership of the public water system into one (1) of the following classifications: Authority; Private Individual; Federal; State; Investor; Water Association; Municipality; or Other
- Number of Meters: the number of service connections equipped with water meters
- Service Connections: The total number of service connections
- Population Served: The total population served (per day) by the public water system. Includes direct service customers and indirectly through sold bulk supplies
- Primary Water Source: The source type of water classified into one (1) of the following water services: Surface; Ground; Purchased Surface Water; Purchased Ground Water
- Average Production: The arithmetic average of the volume of daily production in gallons per day. The average is based on daily water production for a calendar year.
- Maximum Production GPD: The maximum volume of water in gallons per day produced for any one day during a calendar year
- Design Capacity: The designed production capability in gallons per day based on the anticipated peak daily water use. The peak daily water use is determined by a review of historical records and/or by multiplying the average daily water use by a standard design multiplier while considering system growth.
- Storage Capacity: The total finished storage capacity in gallons
- Reserve Capacity: A volume of water in gallons per day calculated by subtracting Design Capacity from the Average Production. It is shown to provide an understanding of expansion capabilities.

TABLE PU-1
Community Water Systems Summary
Cambria County

SYSTEM NAME (PWSID)	SERVICE AREA	DISTRIBUTION USER RATES – \$	OWNER TYPE	NO. OF METERS/ SERVICE CONNECTIONS	POP. SERVED	PRIMARY SOURCE	AVG PROD. (GPD)	MAX PROD. (GPD)	DESIGN CAPACITY (GPD)	STORAGE CAPACITY (GAL)	RESERVE CAPACITY (GPD)
ADAMS TWP WATER AUTH (4110033)	ADAMS TWP (ALL)	\$6.40	AUTHORITY	632/632	2,000	PURCHASED SURFACE	125,000	210,000	210,000	0	85,000
BLACKLICK VALLEY MUNI AUTH (4110077)	BLACKLICK TWP (PARTIAL), JACKSON TWP (PARTIAL), BUFFINGTON TWP (PARTIAL)	\$5.00	AUTHORITY	680/680	2,040	PURCHASED SURFACE	75,000	75,000	150,000	395,000	75,000
CAMBRIA TWP WATER AUTH (4110006)	CAMBRIA TWP (PARTIAL)	\$5.50	AUTHORITY	452/452	1,050	SURFACE	75,000	96,000	150,000	698,000	75,000
CAPTAINS QUARTERS (4110025)	CLEARFIELD TWP (PARTIAL)	NOT RECORDED	PRIVATE INDIVIDUAL	1/25	35	GROUND	1,800	2,200	22,000	5,000	20,200
CARROLLTOWN BORO MUNI AUTH (4110004)	CARROLLTOWN BOROUGH (ALL), EAST CARROLL TWP (PARTIAL), WEST CARROLL TWP (PARTIAL)	4.94	AUTHORITY	597/590	1,047	GROUND	100,000	389,000	389,000	672,515	289,000
COUNTRY LIVING ESTATES INC (4110028)		NA	PRIVATE INDIVIDUAL	1/1	25	GROUND	1,700	1,700	10,000	400	8,300
CRESSON BORO WATER SYS (4110030)	CRESSON BOROUGH (ALL), CRESSON TWP (PARTIAL)	\$7.50	MUNICIPALITY	835/835	1,631	PURCHASED GROUND	125,000	300,000	300,000	0	175,000
CRESSON TWP MUNI AUTH (4110038)	CRESSON TWP (ALL)	\$5.67	AUTHORITY	655/655	4,475	GROUND	25,000	50,400	50,400	1,750,000	25,400
CROYLE TWP WATER AUTH (4110299)	CROYLE TWP (ALL), JACKSON TWP (PARTIAL), EAST TAYLOR TWP (PARTIAL) ,CAMBRIA TWP (PARTIAL)	\$6.25	WATER ASSOCIATION	325/325	989	PURCHASED SURFACE	54,000	150,000	63,000	76,000	9,000
DEAN TWP WATER SYS (4110042)	DEAN TOWNSHIP (PARTIAL)	\$15.00	MUNICIPALITY	1/78	175	GROUND	20,000	120,000	250,000	105,000	230,000
EAST TAYLOR MUNI AUTH (4110043)	EAST TAYLOR TWP (PARTIAL)	\$7.00	AUTHORITY	1080/1080	3,200	PURCHASED SURFACE	187,453	225,000	360,000	600,000	172,547
EBENSBURG BORO MUNI AUTH (4110009)	BLACKLICK TWP (PARTIAL), JOHNSTOWN GJWA (PARTIAL), EBENSBURG BOROUGH (PARTIAL), JACKSON TWP (PARTIAL), CAMBRIA TWP (PARTIAL)	\$3.44 - \$5.00	AUTHORITY	2100/2100	6,000	SURFACE	825,000	850,000	1,500,000	2,101,000	675,000
ELDER TWP WATER AUTH (4110045)	ELDER TWP (PARTIAL)	\$2.50	AUTHORITY	70/70	250	PURCHASED SURFACE	12,000	25,000	25,000	60,000	13,000
FEDERAL CORR INSTITUTE LORETTO (4110067)	ALLEGHENY TWP (PARTIAL)	NOT RECORDED	FEDERAL	6/6	1,500	GROUND	190,000	200,000	225,000	500,000	35,000
GALLITZIN BORO WATER AUTH (4110011)	GALLITZIN BORO (ALL), TUNNELHILL BORO (ALL), GALLITZIN TWP (PARTIAL) ,ALLEGHENY TWP (PARTIAL)	\$29.00	AUTHORITY	933/933	3,130	SURFACE	150,000	150,000	504,000	870,000	354,000

TABLE PU-1
Community Water Systems Summary (Cont)

SYSTEM NAME (PWSID)	SERVICE AREA	DISTRIBUTION USER RATES —\$	OWNER TYPE	NO. OF METERS/ SERVICE CONNECTIONS	POP. SERVED	PRIMARY SOURCE	AVG PROD. (GPD)	MAX PROD. (GPD)	DESIGN CAPACITY (GPD)	STORAGE CAPACITY (GAL)	RESERVE CAPACITY (GPD)
GLENDALE VALLEY MUNICIPAL AUTH (4110060)	WHITE TWP (PARTIAL), CHEST TWP (PARTIAL)	\$41.04 - WHITE TWP; \$27.36 - CHEST TWP	INVESTOR	6/803	2,000	GROUND	65,000	185,000	150,000	202,000	85,000
GREATER JOHNSTOWN WATER AUTH (4110014)	JOHNSTOWN CITY (ALL), WESTMONT BORO (ALL), DALE BORO (ALL), SOUTHMONT BORO (ALL), FERNDALE BORO (ALL), BROWNSTOWN BORO (ALL), LORAIN BORO (ALL), EAST CONEMAUGH BORO (ALL), FRANKLIN BORO (ALL), UPPER YODER TWP (PARTIAL), LOWER YODER TWP (PARTIAL), STONYCREEK TWP (PARTIAL), WEST TAYLOR TWP (PARTIAL), EAST TAYLOR TWP (PARTIAL), CONEMAUGH TWP (PARTIAL), MIDDLE TAYLOR TWP (PARTIAL), EBENSBURG BORO (PARTIAL), HSWA (PARTIAL)	\$4.89 - \$5.85	AUTHORITY	22169/22169	52,000	SURFACE	6,600,000	6,600,000	14,600,000	22,542,456	8,000,000
HASTINGS MUNI AUTH (4110013)	HASTINGS BOROUGH (ALL), ELDER TOWNSHIP (PARTIAL), SUSQUEHANNA TWP (PARTIAL)	\$12.75 - \$25.00	AUTHORITY	704/704	1,670	SURFACE	162,000	206,000	500,000	390,000	338,000
HIGHLAND S & W AUTH BEAVERDAM (4110017)	CRESSON BORO (ALL), EHRENFELD BORO (ALL), GEISTOWN BORO (ALL), RICHLAND TWP (ALL), SANKERTOWN BORO (ALL), SUMMERHILL BORO (ALL), SOUTH FORK BORO (ALL), WILMORE BORO (ALL), ADAMS TWP (PARTIAL), CROYLE TWP (PARTIAL), CRESSON TWP (PARTIAL), GALLITZIN BORO (PARTIAL), LILLY BORO (PARTIAL), PORTAGE TWP (PARTIAL), STONYCREEK TWP (PARTIAL), WASHINGTON TWP (PARTIAL), SUMMERHILL TWP (PARTIAL)	\$4.45	AUTHORITY	9940/9620	26,210	SURFACE	5,472,000	6,000,000	6,635,520	9,929,000	1,163,520
HIGHLAND S & W AUTH LLOYDELL (4110015)	ADAMS TWP (PARTIAL)	\$4.45	AUTHORITY	288/288	805	GROUND	70,000	1,600,000	1,600,000	706,000	1,530,000
HIGHLAND S&W AUTH NORTHERN END (4110016)	CRESSON BORO (ALL), SANKERTOWN BORO (ALL), CRESSON TWP (PARTIAL), GALLITZIN BORO (PATIAL), LILLY BORO (PARTIAL), WASHINGTON TWP (PARTIAL)	4.45	AUTHORITY	50/50	139	GROUND	600,000	2,500,000	2,500,000	1,860,000	1,900,000

TABLE PU-1
Community Water Systems Summary (Cont)

SYSTEM NAME (PWSID)	SERVICE AREA	DISTRIBUTION USER RATES –\$	OWNER TYPE	NO. OF METERS/ SERVICE CONNECTIONS	POP. SERVED	PRIMARY SOURCE	AVG PROD. (GPD)	MAX PROD. (GPD)	DESIGN CAPACITY (GPD)	STORAGE CAPACITY (GAL)	RESERVE CAPACITY (GPD)
JACKSON TWP WATER AUTH (4110021)	JACKSON TWP (PARTIAL), EBENSBURG BORO (PARTIAL)	5.75%	AUTHORITY	1415/1415	3,175	PURCHASED SURFACE	205,500	250,000	510,000	1,280,000	304,500
KINGS II MOBILE HOME PARK (4110005)	E CARROLL TWP (PARTIAL)	NOT RECORDED	INVESTOR	30/69	209	GROUND	12,000	14,000	47,000	580	35,000
LILLY MUNI WATER WORKS (4110046)	LILLY BORO (ALL), WASHINGTON TWP (PARTIAL)	\$32.00 - LILLY BORO; \$4.00 - WASHINGTON TWP	MUNICIPALITY	589/589	2,650	GROUND	110,000	172,800	300,000	500,000	190,000
LORETTO BORO WATER SYS (4110065)	LORETTO BORO (ALL), ALLEGHENY TWP (PARTIAL)	\$6.90	MUNICIPALITY	151/151	480	PURCHASED GROUND	21,000	26,000	100,000	0	79,000
MARSTELLER COMM WATER AUTH (4110020)	BARR TWP. (PARTIAL)	\$25.00	AUTHORITY	0/56	260	GROUND	12,000	20,000	115,200	60,000	103,200
N E TRAILER COURT (4110010)	CAMBRIA TOWNSHIP (PARTIAL)	NOT RECORDED	PRIVATE INDIVIDUAL	1/27	81	GROUND	4,250	6,000	50,400	19,300	46,150
NANTY GLO WATER AUTH (4110023)	NANTY GLO BORO (ALL), CAMBRIA TWP (PARTIAL)	\$4.40	AUTHORITY	1580/1580	4,060	SURFACE	761,000	1,114,000	2,000,000	2,607,000	1,239,000
NOELS TRAILER COURT (4110296)	WHITE TWP (PARTIAL)	NOT RECORDED	PRIVATE INDIVIDUAL	2/228	62	GROUND	7,150	14,650	63,360	8,000	56,210
NORTHERN CAMBRIA MUNI WATER (4110003)	BARNESBORO BORO (ALL), SUSQUEHANNA TWP (PARTIAL)	2.25	MUNICIPALITY	980/980	2,770	GROUND UNDER SWI	210,000	250,000	720,000	1,025,000	510,000
PATTON BORO WATER DEPT (4110024)	PATTON BORO (ALL), EAST CARROLL TWP (PARTIAL), CLEARFIELD TWP (PARTIAL)	\$20.00	MUNICIPALITY	1/869	2,250	SURFACE	450,000	818,000	850,000	1,342,000	400,000
PLEASANTVIEW MHP (4110074)	ADAMS TWP (PARTIAL)	NOT RECORDED	OTHER	0/29	61	GROUND	4,300	10,000	10,000	6,340	5,700
PORTAGE BORO MUNI AUTH (4110027)	PORTAGE BOROUGH (ALL), PORTAGE TWP (PARTIAL), CASSANDRA BORO (PARTIAL)	\$3.67	AUTHORITY	2625/2625	7,500	SURFACE	640,000	751,000	2,700,000	2,225,000	2,060,000
READE TWP MUNI AUTH (4110297)	READE TWP (PARTIAL)	\$7.83	AUTHORITY	563/563	1,746	GROUND	70,000	84,000	330,000	363,000	260,000
SANKERTOWN BORO WATER SYS (4110007)	SANKERTOWN BORO (ALL), CRESSON TWP (PARTIAL)	4.25	MUNICIPALITY	295/295	760	PURCHASED GROUND	48,360	102,000	70,000	0	21,640
SOUTHWESTERN CAMBRIA CNTY AUTH (4110041)	DAISYTOWN BORO (ALL), CONEMAUGH TWP (PARTIAL), RICHLAND TWP (PARTIAL) ,ADAMS TWP (PARTIAL)	\$4.50	AUTHORITY	1400/1400	4,200	PURCHASED SURFACE	250,000	300,000	288,000	1,050,000	38,000

TABLE PU-1
Community Water Systems Summary (Cont)

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SPANGLER MUNI AUTH (4110032)	SPANGLER BORO (ALL), SPANGLER NORTHERN CAMBRIA (PARTIAL) ,NORTHERN CAMBRIA BORO (PARTIAL)	\$2.75	AUTHORITY	1068/1068	2,670	GROUND	188,000	300,000	300,000	300,000	112,000
TEAKETTLE RUN WATER AUTH (4110001)	BARR TWP (PARTIAL), BLACKLICK TWP (PARTIAL)	8	AUTHORITY	39/39	110	GROUND	5,000	6,500	75,000	2,500	70,000
TRI TWP WATER AUTH (4110026)	SUMMERHILL TWP (PARTIAL), PORTAGE TWP (PARTIAL), CROYLE TWP (PARTIAL)	\$2.50	AUTHORITY	245/245	1,227	PURCHASED SURFACE	49,000	0	76,000	0	27,000
W CARROLL TWP W&S AUTH ST BENE (4110061)	WEST CARROLL TWP (PARTIAL)	\$25.00	AUTHORITY	108/108	325	SURFACE	16,000	19,000	115,000	63,000	99,000
WATKINS AREA WATER AUTHORITY (4110298)	WEST CARROLL TWP (PARTIAL), BARR TWP (PARTIAL)	\$2.83 - \$25.00	AUTHORITY	80/80	200	PURCHASED SURFACE	12,000	14,000	35,000	0	23,000
WEST CARROLL W&S AUTH BAKERTON (4110058)	WEST CARROLL TWP (PARTIAL)	\$22.00	AUTHORITY	225/225	905	SURFACE	60,000	72,000	230,400	209,000	170,400
ZIMMIES CAMPGROUND (4110076)	WHITE TWP (PARTIAL)	NOT RECORDED	PRIVATE INDIVIDUAL	3/118	54	GROUND	5,300	8,000	24,500	16,000	19,200

- ❑ Cambria County is served by 43 State-permitted community water systems. The County's largest and most extensive public water systems serve a regional or multi-municipal customer base and include:
 - Greater Johnstown Water Authority
 - Highland Sewer and Water Authority
 - Portage Borough Municipal Authority
 - Ebensburg Borough Municipal Authority
- ❑ The size of community water systems range from the Country Living Estates Inc which serves 25 people and the Captain's Quarters which serves 35 people to the Greater Johnstown Water Authority that directly provides water to 21,732 (2009) and indirectly to an additional 30,000 (adjusted GJWA) people. The majority of water systems are classified as small to medium-sized, serving between 501 and 10,000 people.
- ❑ The primary water sources for the community water systems are surface, ground, and purchased surface or ground water. Surface water sources include all tributary streams, unenclosed springs, drainage basins, natural lakes, and artificial reservoirs or impoundments. Ground water sources include water from dug, drilled, jetted, or driven wells and abandoned mine wells.
- ❑ The majority of the customer service connections for the community water systems are metered. A total of 52,925 water meters serve the 43 water systems. Only the Marsteller Community Water Authority and the Pleasant View MHP contain no water meters.
- ❑ Distribution user rates for the County's community water systems range from an average of \$2.25 per 1,000 gallons for the Northern Cambria Municipal Water System to an average of near \$41.00 per 1,000 gallons for portions of the Glendale Valley Municipal Authority.
- ❑ The majority (76%) of the 43 community water systems are owned and operated by public water authorities or municipal governments. Five (5) systems are owned by private individuals.

Water Supply Sustainability

The Pennsylvania State Water Plan, approved by Department of Environmental Protection (DEP) on January 28, 2009, replaces an outdated plan completed in 1983.

The State Water Plan offers tools and guidance for all those who make decisions that affect the Commonwealth's water resources or who make decisions based upon the availability of water of adequate quantity and quality. The plan is useful to those who wish to locate and to design their projects so that the availability of water resources does not constrain them; those who wish to preserve high environmental quality where it exists and to achieve it where it does not; local governments with planning, conservation, and economic development responsibilities; and Commonwealth and interstate compact agencies.

Under Act 220, registration and reporting of water withdrawals from public water suppliers, utility companies, agriculture, industry and commercial enterprises and others are important components in assessing and projecting existing and future water demands and needs that will be used to identify where demands exceed available resources. This will be an important tool for county and municipal planners statewide. Act 220 affords the diversified water registrants the opportunity to make their water needs known to local and state officials.

The State Water Plan's three principal priorities include:

- ❑ The efforts to collect, interpret, and disseminate water resources information.
- ❑ An integrated approach to managing water resources.
- ❑ The need for advanced technology to conserve and enhance water resources.

An accomplishment of the State Water Plan was establishing six (6) regional planning committees. Cambria County lies within the Ohio and the Upper/Middle Susquehanna Planning Areas. The following highlights the local priorities of these two regions:

The Ohio Water Resources Committee's top two planning priorities include:

- ❑ The reclamation of water resources impaired by abandoned mines.
- ❑ Identifying water resources needed to promote and facilitate economic development and provide job opportunities, while maintaining watershed integrity and recreational benefits.

The Upper/Middle Susquehanna Water Resources Committee's top two planning priorities include:

- ❑ Protecting important headwater habitats and recharge areas and addressing the consequences of acidic drainages on receiving streams to improve and protect water quality and aquatic ecosystems.
- ❑ To enhance the availability and utilization of water.

Water Supply Protection

Cambria County's water supply comprises water usage, treatment and distribution systems, and related water quantity and quality issues. The County contains an abundance of surface and ground water sources which have traditionally provided good quality potable and industrial water supplies. However, many older community and non-community public water systems that serve Cambria County are inadequate in terms of meeting existing and new federal and state safe water regulations.

The Cambria County Water Supply and Wellhead Protection Program

The County's Water Supply and Wellhead Protection Program was prepared in 1995 on behalf of the Redevelopment Authority of Cambria County. The Study considered topics related to water resources such as past and present population and future County land use. Also considered were water usage, state and federal regulations, emergency management, education concerning wellhead protection, public awareness of water resources, and the development of municipal ordinances relative to wellhead protection.

The Water Supply and Wellhead Protection Study provided a viable water resource protection program for Cambria County. The ultimate goal of the Wellhead Protection Program was to educate the public about water supplies and protection and to develop a mechanism in which water providers can protect the supply sources in both emergency and non-emergency situations. Some of the major conclusions and/or recommendations proposed by the Cambria County Water Supply and Wellhead Protection Study in 1995 are still relevant to this Comprehensive Planning effort:

- ❑ The population of Cambria County is projected to continue to decrease. The industrial base is anticipated to decrease or remain stable. These factors may lessen overall water use requirements in Cambria County during the projected period.
- ❑ The majority of Cambria County remains undeveloped; however, past trends indicate that developed land will continue to increase, causing reductions in agricultural and forested land uses. Increases in developed land point to a potential need to protect water supplies.
- ❑ Monitoring requirements will continue to become more stringent for surface, ground, and mine water sources as regulatory requirements increase and as consumers demand increased water purity and better continuity of supply.
- ❑ Future water systems or system updates will be required to replace older systems which are no longer adequate and/or cannot meet increasingly stringent water quality standards. The same is true for systems which are not adequate to service increasing demands in high growth areas.
- ❑ Some water supplies have been degraded by chemical and/or biologic contaminants. In some cases, production or discharge quantities may have also been diminished.

- ❑ There is indication that regionalization of at least some systems may improve efficiency and reduce costs. Additional study and discussion between system owners and consumers appears to be necessary before future regionalization plans are formulated.
- ❑ Wellhead protection plans and appropriate ordinances can help system owners to better understand and protect ground water supplies.

Water Supply Assessments

The Pennsylvania Department of Environmental Protection (DEP) has conducted assessments of potential contaminant threats to the raw water quality of all public drinking water sources as required by the 1996 Safe Drinking Water Act. In the County assessment have been completed for the following systems:

- ❑ Beaverdam Highland Sewer and Water Authority
- ❑ Cambria Township Water Authority
- ❑ Ebensburg Borough Municipal Authority
- ❑ Gallitzin Borough Water Authority
- ❑ Greater Johnstown Water Authority
- ❑ Nanty Glo Water Authority
- ❑ Patton Borough Water Department
- ❑ Portage Borough Municipal Authority
- ❑ West Carroll Water and Sewer Authority - Bakerton
- ❑ West Carroll Water and Sewer Authority - St. Benedict

Collectively, the assessments identified potential contaminants capable of altering the water supply at surface and ground water sources for the community water systems, including:

- ❑ Transportation Systems - Accidents and spills associated with vehicular traffic and from deicing activities
- ❑ Recreational Boating - Potential spills
- ❑ Residences - Malfunctioning septic systems
- ❑ High Tension Power Lines - Runoff from Herbicides Aerial spraying
- ❑ Auto Repair/Scrap Yard - Contaminant runoff during storm events, spills
- ❑ Agriculture - Stormwater runoff from feedlots, other agricultural areas
- ❑ Golf Course - Stormwater runoff
- ❑ Past Mining Activity - Discharges and surface runoff into streams

To address these potential contaminants and sources, actions to be encouraged on a County level include:

1. Development voluntary, local wellhead protection plans.
2. Development of Watershed Protection Plans:
 - ❑ Focus should be placed on controlling stormwater runoff along transportation corridors near the streams that carry the source water to the intakes.

- ❑ Malfunctioning septic system concerns could be mitigated by proper septic tank inspection and maintenance as part of a municipal sewage management program.
- ❑ Best Management Practices for spill prevention and containment can reduce the threat of PCB exposure to the streams from utility substations.
- ❑ Best Management Practices should be used to divert runoff from agricultural areas, surface mines/discharges, overhead herbicides aerial spraying and waterfowl territories away from streams, reservoirs and other waterways:

Urban Best Management Practices

In urbanized areas, Best Management Practices for reducing polluted stormwater runoff from impacted water supplies are in the form of the 6 minimum control measures administered on a municipal level through Pennsylvania's MS4 Program. These include:

1. Public Education - BMPs for MS4s to inform individuals and households about ways to reduce stormwater pollution.
2. Public Involvement - BMPs for MS4s to involve the public in the development, implementation, and review of an MS4's stormwater management program.
3. Illicit Discharge Detection & Elimination - BMPs for identifying and eliminating illicit discharges and spills to storm drain systems.
4. Construction - BMPs for MS4s and construction site operators to address stormwater runoff from active construction sites.
5. Post-construction - BMPs for MS4s, developers, and property owners to address stormwater runoff after construction activities have completed.
6. Pollution Prevention/Good Housekeeping - BMPs for MS4s to address stormwater runoff from their own facilities and activities.

Industrial Water Supply

The Cambria Somerset Authority (CSA) is the owner and operator of two large Industrial Water Supply Reservoirs in Cambria County. These reservoirs include the Wilmore Reservoir located in Summerhill Township, Munster Township and Portage Township and the Hinckston Run Reservoir located in Easter Taylor Township and Middle Taylor Township. The CSA also owns and operated the Quemahoning Reservoir located in Somerset County.

CSA is a landmark authority in the Commonwealth of Pennsylvania for the unprecedented cooperation of two counties for common goals. These goals include:

- ❑ Providing high quality, low cost industrial water
- ❑ Creating diverse recreation opportunities for the citizens of the region
- ❑ Practicing regional watershed and land management conservation

The CSA is the sole provider of industrial water in the Cambria and Somerset Counties, currently serving 11 industrial and commercial customers and 2 public water supply Authorities. The CSA's water availability as determined by water allocation vs. existing sales is in excess of 25 million gallons a day (MGD) collectively from the Hinckston Run, Wilmore Reservoirs and Quemahoning Reservoirs.

The water currently supplied to steel industry-related customers is used for process and once through cooling. Water sold to Ebensburg Power Company and Cambria Co-generation is used in the production of electricity by circulating fluidized bed boilers. Several small commercial customers use the water for a variety of non-potable purposes. The Greater Johnstown Water Authority can purchase raw water for filtration to 22,000 potable water customers within various municipalities in the Johnstown area. As an example of an Economic Development advantage of these reservoirs, in 2009, the Somerset County General Authority (SCGA) began purchasing water from the Quemahoning Reservoir for delivery to northern and central Somerset County.

Public Water Issues, Concerns and Constraints

As noted previously in this Section a majority of the Populated places in the County are served by public drinking water. As noted previously, there were 47 water systems in 2004 and in 2010 that number had decreased to 43. Mainly, the reducing in the number of systems is due to regionalization and takeover of local water co-ops and smaller systems by larger service providers. This trend is expected and encouraged to continue into the future. The following summarizes other known issues facing water service providers.

- ❑ Overall, the water authorities in the County are focused primarily on maintaining their systems, including repair and replacement of treatment facilities and distributions systems at the end of the useful life spans. Therefore it is anticipated that many of the larger water authorities in the County will be focusing their efforts on replacing and/or repairing portions of their water distribution systems.
- ❑ Many of the older community water systems will require substantial repairs and, in some cases, the entire system of water supply, distribution, and treatment may need to be upgraded to meet current and future federal regulations. Community systems that serve a larger customer base will also require on-going and additional improvements and upgrades to meet increasing demand.
- ❑ Future community water system improvements will require additional federal and state funding to help offset the increasing costs of providing safe and reliable public drinking water. Many of the smaller community water systems could be better served from both a cost effective and regulatory approach by a joint, multi-municipal, or regional water system.

Recent municipal planning in the County has identified the following localized water related issues:

- ❑ In the Forest Hills Region, water service is generally provided in the valleys and lower lying areas in the Region and is limited on the hills and areas with higher elevations. For water to be more available in these higher elevation areas additional pumping stations will need to be installed to overcome the elevation issue and upgrades to the distribution system (install larger diameter pipes) will need to be completed to facilitate the pressures and volumes needed to reach areas with higher elevations.
- ❑ The water distribution system in Jackson Township appears to be adequate at the present time; however there is a problem with water infiltration into the system. If Jackson Township experiences any type of significant population growth or industrial/commercial growth the water distribution system's capacity may need to be upgraded and water lines extended.
- ❑ The water distribution system in Cambria Township seems to be adequate at the present time. Any upgrades in the near future should be taken advantage of if funds are available. If Cambria Township experiences any type of significant population growth or industrial/commercial growth, the water distribution system's capacity may need to be upgraded and water lines extended.

Public Comments

At the initial Community Workshops held in each County Planning Region early in the planning process, residents voiced a number of transportation-related comments and concerns. A number of comments, complaints and concerns were expressed on Public Water issues, as summarized below:

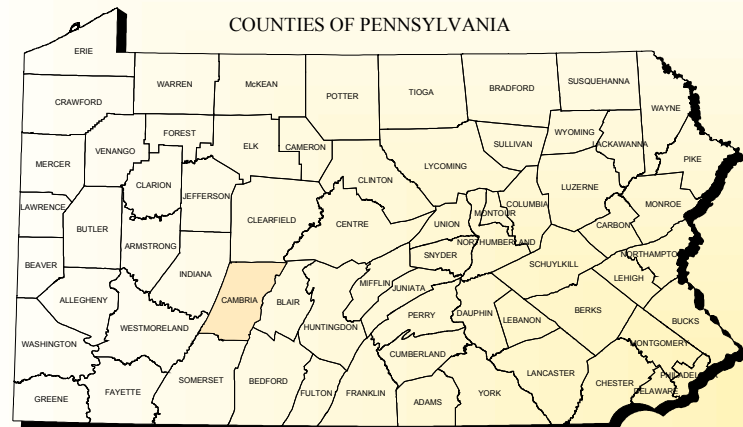
- ❑ General Agreement that recent improvements to water service, including improvements to the infrastructure itself, newer pipelines, facilities and interconnections have upgraded the availability and service reliability of public water in the County.
- ❑ Concerns raised on the aging infrastructure in the County and the need to continue the repair/replacement type projects to address.
- ❑ In the Northern Planning Region expansion of infrastructure including water is necessary to attract and retain industry.
- ❑ In the Northern Planning Region concern that continued improvements and expansion of water service could impact the rural lifestyle of the region.

Public Water and Growth Areas

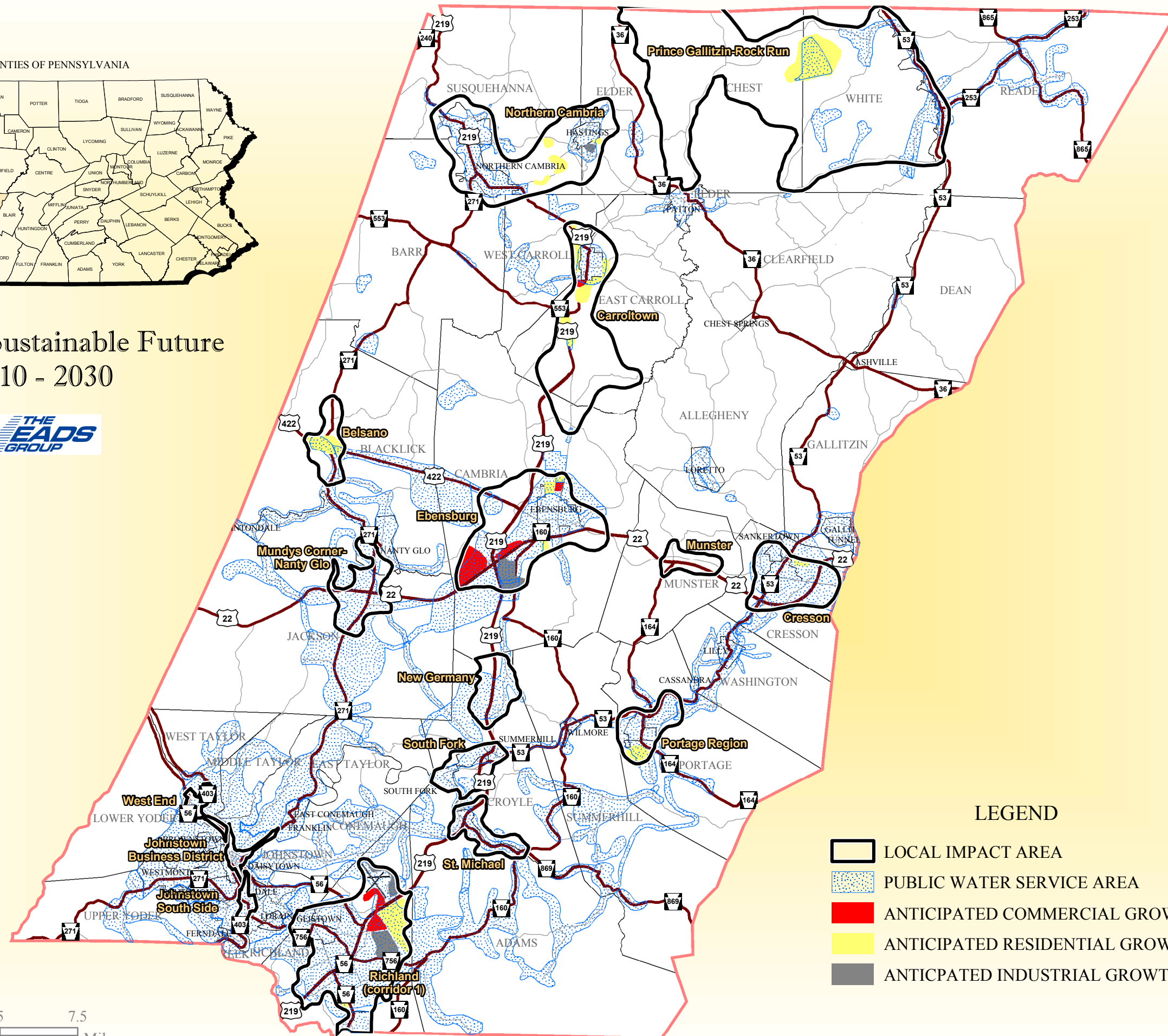
Public Water Services Areas along with Growth Areas were mapped together to identify gaps in service. The following highlights those service gaps:

- ❑ Munster Growth Area – no water service is currently available in this Growth Area although discussions of expanding water service to this area are underway between Munster Township and the Cresson Township Municipality.
- ❑ Carrolltown Growth Area – water service is provided in the northern portion of the LIA mainly in Carrolltown Borough. Service will need to be expanded to areas adjacent to Carrolltown Borough and southward along Rt 219 to the southern portion of the Growth Area in order to serve anticipated Commercial and Residential Areas.
- ❑ Northern Cambria Growth Area – Water service is provided in the eastern and western portions of the Growth Area mainly in Northern Cambria Borough and Hastings. Water service will need expanded in between these Boroughs mainly along Municipal Road and along Number Nine Road in order to serve anticipated Residential Growth Areas.

The following map highlights the public water service areas and the LIAs and Anticipated Growth Areas.



Toward a Sustainable Future
2010 - 2030



LEGEND

- LOCAL IMPACT AREA
- PUBLIC WATER SERVICE AREA
- ANTICIPATED COMMERCIAL GROWTH
- ANTICIPATED RESIDENTIAL GROWTH
- ANTICIPATED INDUSTRIAL GROWTH



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CAMBRIA COUNTY COMPREHENSIVE PLAN WATER SERVICE & GROWTH AREAS



APRIL 2011

Sanitary Sewer

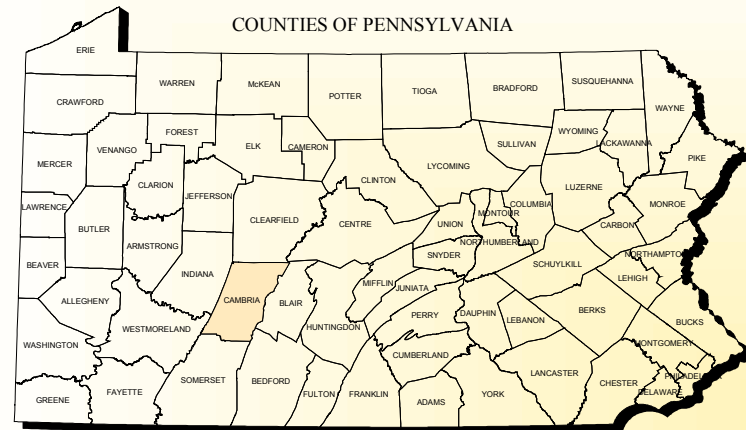
The sanitary, efficient, and economical collection, treatment, and disposal of sewage are of primary importance to every community. An efficient system servicing the developed areas in the County is necessary to insure the health of the residents and is also necessary to promote the future orderly growth and development of the County.

The County is served by 26 state permitted public sewer systems. The majority of these systems are owned and operated by municipal authorities. In Cambria County, over 75% of housing units are served by a municipal authority or privately held sewer provider. The largest providers of public sewage in Cambria County are single entities but provide service to numerous municipalities. The larger municipal authorities include:

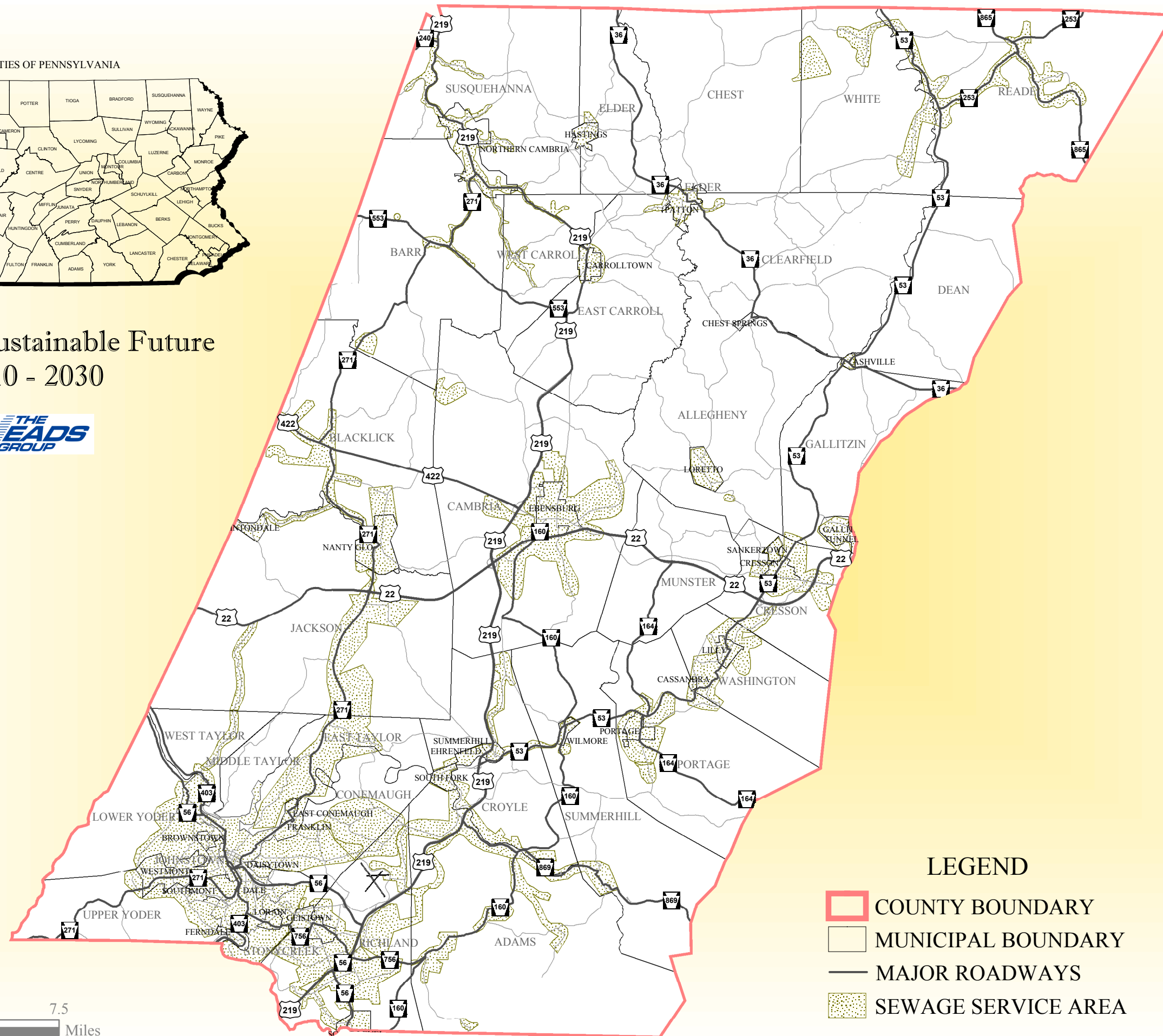
- Johnstown Regional Sewage
- Highland Sewer and Water Authority
- Forest Hills Municipal Authority
- Municipal Authority of the Borough of Ebensburg
- Portage Area Municipal Authority
- Glendale Valley Municipal Authority

The availability of public wastewater treatment is somewhat similar to that of public water availability as they are both spread across portions the County. The populated areas in the southern and central portions of the County including the Greater Johnstown Area, Richland Twp, Ebensburg, Portage Area, the Route 271 Corridor and Rt 53 Corridor between Portage and Cresson are all served. As with water, sanitary service in the northern portion of the County is confined to the more populated Boroughs with far less coverage in the surrounding townships. The more rural areas in the northern portion of the County rely more heavily on on-lot septic systems than does the central and southern portions of the County. Although with higher rural populations in the central and southern portions, the need for sewer service to address malfunctioning sewer systems is greater in theses portions of the County.

A further evaluation of sanitary sewer services shows that in the areas that do have public sewer and water, the actual extent of the public sanitary sewer is less than public water. For example, in Elton and Salix the extent of public sewage service is less than that of public water. Overall there are fewer areas served with public wastewater treatment than public water. This may be due in large part to the nature of the collection and treatment of wastewater. Cost factors for collection, conveyance and treatment of wastewater do restrict the widespread expansion of service. With public water service, the availability and physical connection to bulk water has facilitated the expansion of water services areas. Typically, sanitary sewer expansion projects are promulgated on eliminating malfunctioning on-lot septic system problem areas. The service areas of these sanitary sewer systems are depicted on the following Sanitary Sewer Service Area Map.



Toward a Sustainable Future
2010 - 2030



LEGEND

- COUNTY BOUNDARY
- MUNICIPAL BOUNDARY
- MAJOR ROADWAYS
- SEWAGE SERVICE AREA



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CAMBRIA COUNTY COMPREHENSIVE PLAN SEWAGE SERVICE AREA



APRIL 2011

Sewage Planning

The Pennsylvania Sewage Facilities Act (Act 537) requires that all Commonwealth municipalities develop and implement comprehensive official plans that provide for the resolution of existing sewage disposal problems, provide for the future sewage disposal needs of new land development and provide for the future sewage disposal needs of the municipality. When a municipality adopts a plan, the plan is submitted for review and approval by the Department of Environmental Protection (DEP). By regulation, the planning process is not final until an Act 537 Plan has been approved by DEP. Act 537 planning has been a municipal requirement since July 1, 1967. Legally, all municipalities have an Act 537 Plan. As seen from the table below, plans within the County are generally 10 to 20+ years old. Table PU-2 summarizes the age of these Act 537 Plans.

TABLE PU-2
Act 537 Plan Status
Cambria County

Municipality	Plan Approval Date	Status
Ashville Boro	2/15/1970	Plan older than 20 years
Blacklick Township	2/15/1970	Plan older than 20 years
Brownstown Boro	2/15/1970	Plan older than 20 years
Carrolltown Boro	2/15/1970	Plan older than 20 years
Cassandra Boro	2/15/1970	Plan older than 20 years
Chest Springs Boro	2/15/1970	Plan older than 20 years
Chest Township	2/15/1970	Plan older than 20 years
Clearfield Township	2/15/1970	Plan older than 20 years
Daisytown Boro	2/15/1970	Plan older than 20 years
Dale Boro	2/15/1970	Plan older than 20 years
East Carroll Township	2/15/1970	Plan older than 20 years
East Conemaugh Boro	2/15/1970	Plan older than 20 years
Ebensburg Boro	2/15/1970	Plan older than 20 years
Elder Township	2/15/1970	Plan older than 20 years
Ferndale Boro	2/15/1970	Plan older than 20 years
Franklin Boro	2/15/1970	Plan older than 20 years
Gallitzin Boro	2/15/1970	Plan older than 20 years
Gallitzin Township	2/15/1970	Plan older than 20 years
Geistown Boro	2/15/1970	Plan older than 20 years
Johnstown	2/15/1970	Plan older than 20 years
Lilly Boro	2/15/1970	Plan older than 20 years
Lorain Boro	2/15/1970	Plan older than 20 years
Loretto Boro	2/15/1970	Plan older than 20 years
Lower Yoder Township	2/15/1970	Plan older than 20 years
Middle Taylor Township	2/15/1970	Plan older than 20 years
Munster Township	2/15/1970	Plan older than 20 years
Portage Boro	2/15/1970	Plan older than 20 years
Scalp Level Boro	2/15/1970	Plan older than 20 years
Southmont Boro	2/15/1970	Plan older than 20 years
Stonycreek Township	2/15/1970	Plan older than 20 years
Summerhill Boro	2/15/1970	Plan older than 20 years

TABLE PU-2
Act 537 Plan Status (Cont.)

Municipality	Plan Approval Date	Status
Tunnelhill Boro	2/15/1970	Plan older than 20 years
Vintondale Boro	2/15/1970	Plan older than 20 years
Washington Township	2/15/1970	Plan older than 20 years
Westmont Boro	2/15/1970	Plan older than 20 years
White Township	2/15/1970	Plan older than 20 years
Cambria Township	12/15/1970	Plan older than 20 years
Reade Township	3/8/1988	Plan older than 20 years
Nanty Glo Boro	1/3/1990	Plan between 10 and 20 years old
Barr Township	4/9/1992	Plan between 10 and 20 years old
Northern Cambria	4/9/1992	Plan between 10 and 20 years old
Susquehanna Township	4/9/1992	Plan between 10 and 20 years old
West Carroll Township	4/9/1992	Plan between 10 and 20 years old
Upper Yoder Township	5/20/1992	Plan between 10 and 20 years old
Allegheny Township	11/20/1992	Plan between 10 and 20 years old
Adams Township	3/30/1995	Plan between 10 and 20 years old
Conemaugh Township	3/30/1995	Plan between 10 and 20 years old
Croyle Township	3/30/1995	Plan between 10 and 20 years old
Ehrenfeld Boro	3/30/1995	Plan between 10 and 20 years old
Richland Township	3/30/1995	Plan between 10 and 20 years old
South Fork Boro	3/30/1995	Plan between 10 and 20 years old
Summerhill Township	3/30/1995	Plan between 10 and 20 years old
Wilmore Boro	3/30/1995	Plan between 10 and 20 years old
Portage Township	3/23/1996	Plan between 10 and 20 years old
East Taylor Township	6/22/1996	Plan between 10 and 20 years old
Jackson Township	6/22/1996	Plan between 10 and 20 years old
Hastings Boro	3/31/1998	Plan between 10 and 20 years old
Cresson Boro	4/6/1998	Plan between 10 and 20 years old
Cresson Township	4/6/1998	Plan between 10 and 20 years old
Patton Boro	2/2/2001	Plan between 5 and 10 years old
Sankertown Boro	12/4/2001	Plan between 5 and 10 years old
Dean Township	4/12/2005	Plan less than 5 years old
West Taylor Township	2/8/2007	Plan less than 5 years old

Source: PADEP, 7/15/08.

Although the general trend over the next 10 years will be to address regulatory issues, sewer authorities have undertaken planning activities to phase out future expansion plans. An example of this is the recently completed Forest Hills Regional Alliance ACT 537 updated completed on behalf of the Forest Hills Municipal Authority.

As part recent comprehensive planning efforts in the Forest Hills Region, an Act 537 Sewage Facilities Plan Special Study was completed following requirements set forth by the Pennsylvania Department of Environmental Protection (DEP). The Plan includes nineteen (19) Special Study Areas located within Adams Township, Croyle Township, Summerhill Township and Wilmore Borough which are within the Forest Hills Region of southeastern Cambria County. The Plan evaluates potential system layouts, components and cost of installing new sewage collection systems and interceptor

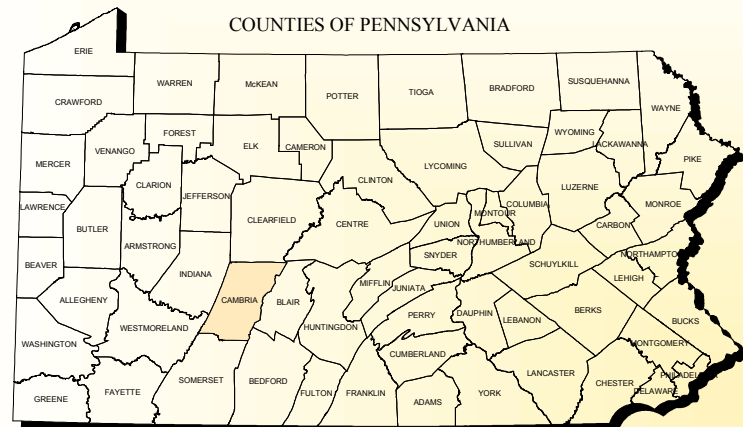
sewers to collect sewage from the Study Areas and for the utilization of existing Adams Township Municipal Authority interceptor sewers and the Windber Area Authority's Ingleside Wastewater Treatment Plant and Forest Hills Municipality Authority interceptor sewers and the Forest Hills Municipality Authority Regional Wastewater Treatment Plant. The Plan also evaluates the capacity of existing sewage treatment facilities to accept additional flows generated from new systems.

In addition to the planning completed by the Forest Hills Municipal Authority, the Portage Area Sewer Authority is the planning stage for an expansion project along PA Rt 164 and the Cresson Township Municipal Authority is developing plans to expand service into Munster Township along the Old Rt 22 Corridor to the intersection with PA Rt 164. Mapping of these proposed sewage service areas is provided in the following map

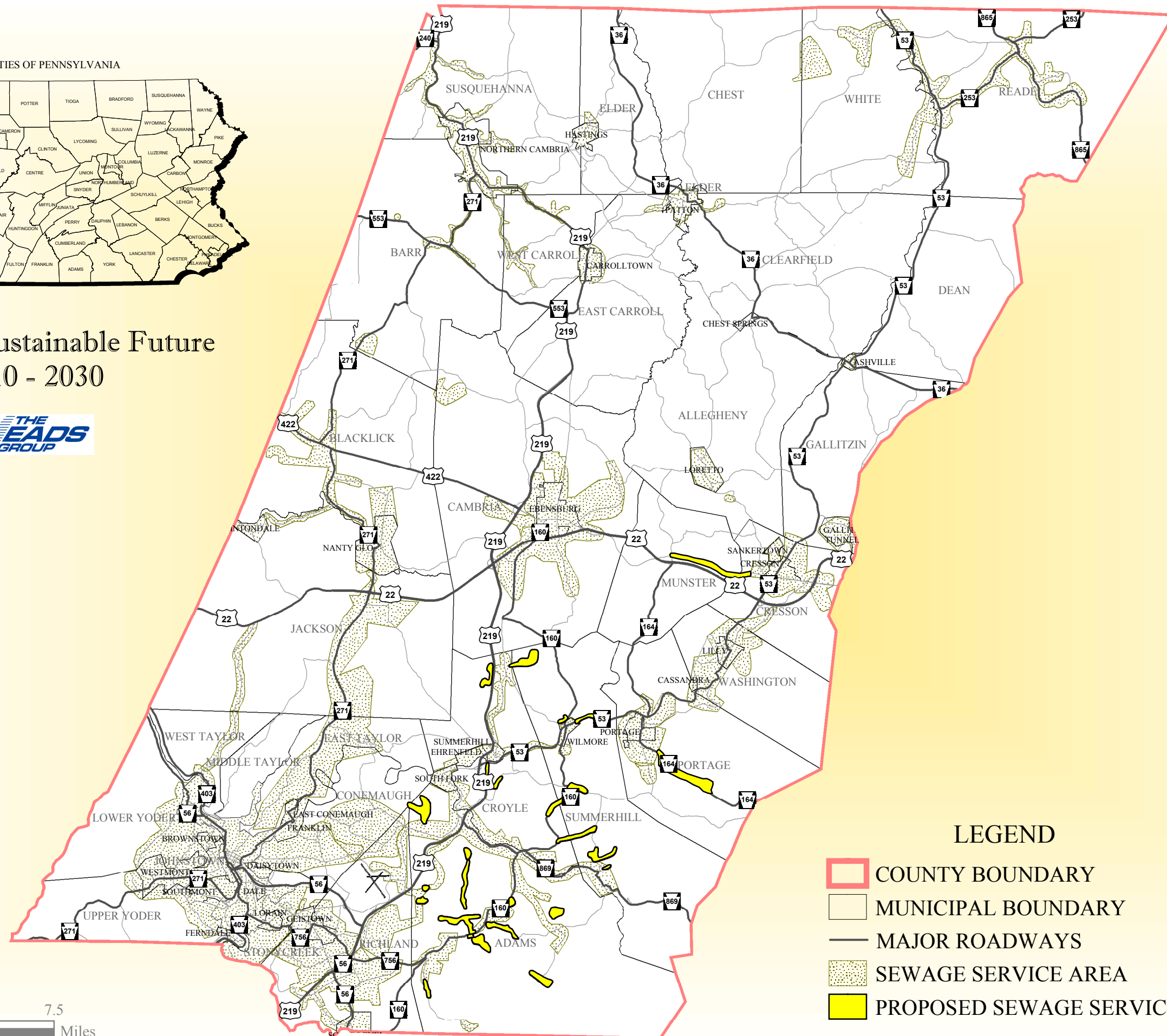
On-Lot and Related Sewer Planning

As noted above, many areas in the County do rely on On-Lot Sewage Disposal systems, a form of disposal well suited for rural areas but may be affected by soils, slope, lot size and various physiographic features. The Pennsylvania Sewage Facilities Act (Act 537) requires that local agencies administer the program to plan for and regulate individual and community on-lot sewage disposal systems. The local agency must employ a certified sewage enforcement officer (SEO) to issue or deny permits for all on-lot sewage disposal systems within its jurisdiction.






The Cambria County Sewage Enforcement Agency (CCSEA) provides sewage enforcement for many municipalities in the County. The Cambria County Sewage Enforcement Agency (CCSEA) has been operating since February 1999 in an office provided by the Cambria County Commissioners.



Toward a Sustainable Future
2010 - 2030



LEGEND

-  COUNTY BOUNDARY
-  MUNICIPAL BOUNDARY
-  MAJOR ROADWAYS
-  SEWAGE SERVICE AREA
-  PROPOSED SEWAGE SERVICE



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CAMBRIA COUNTY COMPREHENSIVE PLAN PROPOSED SEWAGE SERVICE



APRIL 2011

Sanitary Sewer Issues, Concerns and Constraints

There are two main factors that area currently driving the Operation and Maintenance requirements along with future replacement/expansion planning of the sewer providers in the County. For the Southern and Central regions, the main factor is regulatory actions in the form of Consent Orders entered into with the Pennsylvania Department of Environmental Protection (PA DEP) to correct inflow and infiltration issues. In the Northern planning region the driving factor are regulatory requirements derived from the Chesapeake Bay Tributary Strategy. The following further describes these issues.

Inflow and Infiltration Corrective Actions

In the southern and central portion of the County the most significant issue facing many of the sewage authorities are their obligations to investigate and perform repairs on their respective collection systems to reduce inflow and infiltration. Revisions to the Clean Water Act around 2000 prompted the PA DEP to take regulatory action against sanitary sewer providers in the Commonwealth to correct inflow and infiltration issues. Initially, regulatory actions were focused on providers in the Greater Pittsburgh area. In recent years however, the PADEP has focused on providers in the Cambria County and surrounding region. A good example of this is the Johnstown Regional Sewage Authority which is comprised of twenty (20) municipalities under regulatory oversight to address Inflow and Infiltration. The Johnstown Regional Sewage Authority is comprised of the following:

- City of Johnstown
- Brownstown Borough
- Pegasus Sewer Authority (Conemaugh Twp, Cambria County)
- Lorain Borough
- Conemaugh Township (Somerset County)
- Lower Yoder Township
- Daisytown Borough
- Highland Sewer & Water Authority (Richland Twp./Geistown Boro.)
- Dale Borough
- Southmont Borough
- East Conemaugh Borough
- Stonycreek Township
- Upper Yoder Township
- Ferndale Borough
- Westmont Borough
- Franklin Borough
- West Taylor Township
- Jackson Township
- East Taylor Township

Many are systematically addressing these issues within their service areas and some have taken the proactive approach of completely replacing their entire sewer system, including Dale Borough, East Conemaugh Borough, Ferndale Borough (pending) and Franklin Borough (pending). Furthermore, the Johnstown Redevelopment and the City of Johnstown have entered into formal Consent Orders with the Commonwealth of Pennsylvania and the Pennsylvania Department of Environmental Protection. Both the Johnstown Redevelopment Authority and the City of Johnstown have agreed in the Consent Order that they shall eliminate all Sanitary Sewer Overflows (SSOs) from their sewer systems and shall permanently block all Sanitary Sewer Overflows (SSOs) structures on or before December 31, 2022.

Chesapeake Bay Tributary Strategy

In the northern portion of the County the most significant issue facing many of the sewage authorities are there requirements under the Chesapeake Bay Tributary Strategy. With the signing of the Chesapeake 2000 agreement, Pennsylvania made a commitment to help remove the Chesapeake Bay from the federal Clean Water Act's list of impaired waters. As part of this commitment, the Pennsylvania Department of Environmental Protection developed a Chesapeake Bay Tributary Strategy to help achieve this goal.

The purpose of Pennsylvania's Chesapeake Bay Tributary Strategy is two-fold. The first is to provide a strategy for Pennsylvania to meet its nutrient and sediment reduction goals for the Chesapeake Bay. Tributary Strategies are watershed restoration plans developed by the Chesapeake watershed jurisdictions to correct the nutrient and sediment problems in the tributary watersheds and Chesapeake Bay.

Pennsylvania's Tributary Strategy identifies a suite of nonpoint source Best Management Practices (BMPs) and point source management approaches that would be necessary to meet Bay water quality goals. The Strategy calls for reducing nutrient and sediment loads to Pennsylvania streams and the Chesapeake Bay from a variety of sources such as agriculture, wastewater treatment plants, urban stormwater and septic systems. Among some of the initiatives in place are Limiting Wastewater & Industrial Discharges and Upgrading Sewer & Water Infrastructure to meet system by system developed effluent limits.

Forest Hills Region

Recent planning in the Forest Hills Region of the County identifies the following issues facing that part of the County:

- ❑ Forest Hills Municipal Authority – Beautyline Treatment Plant
This smaller treatment facility serves the Salix/Beautyline area. The plant does experience a significant amount of Inflow/Infiltration (I&I) that creates a potential hydraulic overload condition. It is understood that capacity is available at the Plant, but because of this potential hydraulic overload condition, capacity at the plant would need to be reviewed closely if significant new development were proposed in the Salix/Beautyline areas that would require treatment at the Plant.
- ❑ Adams Township Municipal Authority – Mine 42 Plant
This relatively smaller treatment facility serves the Mine 42 community. Recent improvements to the Plant and collection system have improved the capacity of the Plant. Capacity is available at the Plant to serve additional sewage flows generated from modest development in the area. However, significant development in the Mine 42 area may exceed the treatment capacity of the Plant.

Central Cambria Region

Recent planning in the Central Cambria Region identified the following issues facing that part of the County:

- The Revloc Sewer Treatment Facility is currently adequate, but will need a major upgrade if the Route 22 Corridor through Cambria Township becomes more developed.

Public Comments

At the initial Community Workshops held in each County Planning Region early in the planning process, residents voiced a number of sewage related comments and concerns as summarized below:

- ❑ General Agreement that recent improvements to sanitary sewer service, Northern Cambria, Forest Hills and Portage areas have upgraded the availability and service reliability of sanitary sewer service in the County.
- ❑ Concerns on the aging infrastructure in the County and the need to continue the repair/replacement type projects to address.
- ❑ In the Northern Planning Region concern was raised on the lack of large treatment facilities with excess capacity to handle future growth and to handle potential Marcellus Shale wastewater treatment.
- ❑ Identified in the Northern Planning Region that expansion of infrastructure including sanitary sewer is necessary to attract and retain industry.
- ❑ Debate in the Northern Planning Region that continued improvements and expansion of sewer service could impact the rural lifestyle of the region.

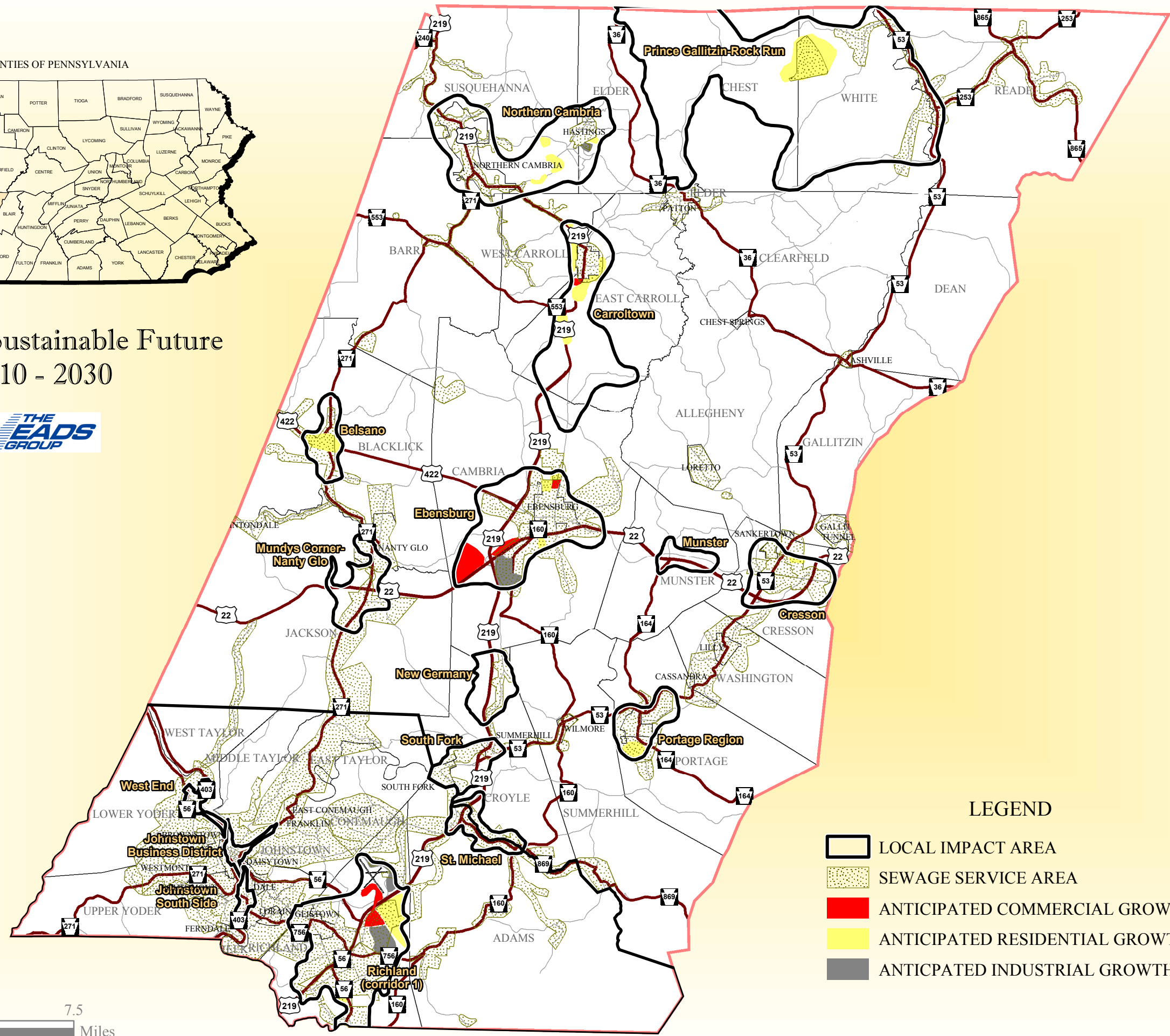
Sanitary Sewer and Growth Areas

Sanitary Sewer Service Areas and Growth Areas were reviewed together to identify gaps in service. The map on the following page highlights the sanitary service areas and the Growth Areas. The following are the identified service gaps:

- ❑ Munster Growth Area – no sanitary service currently available in Growth Area although discussions of expanding water service to this area are underway between Munster Township and the Cresson Township Municipality.
- ❑ Carrolltown Growth Area – sewer service is provided in the northern portion of the Growth Area mainly in Carrolltown Borough. Service will need to be expanded to areas adjacent to Carrolltown Borough and southward along Rt 219 to the southern portion of the Growth Area in order to serve anticipated Commercial and Residential Areas.
- ❑ Northern Cambria Growth Area – Sewer service is provided in the eastern and western portions of the Growth Area mainly in Northern Cambria Borough and Hastings. Sewer service will need expanded in between these Boroughs mainly along Municipal Road and along Number Nine Road in order to serve anticipated Residential Growth Areas.
- ❑ Ebensburg Growth Area - Service will need to be expanded to the west of the US Rt 22 and US Rt 219 interchange in order to address anticipated commercial development in that area.



Toward a Sustainable Future
2010 - 2030



- LEGEND
- LOCAL IMPACT AREA
 - SEWAGE SERVICE AREA
 - ANTICIPATED COMMERCIAL GROWTH
 - ANTICIPATED RESIDENTIAL GROWTH
 - ANTICIPATED INDUSTRIAL GROWTH



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CAMBRIA COUNTY COMPREHENSIVE PLAN SEWAGE SERVICE & GROWTH AREAS

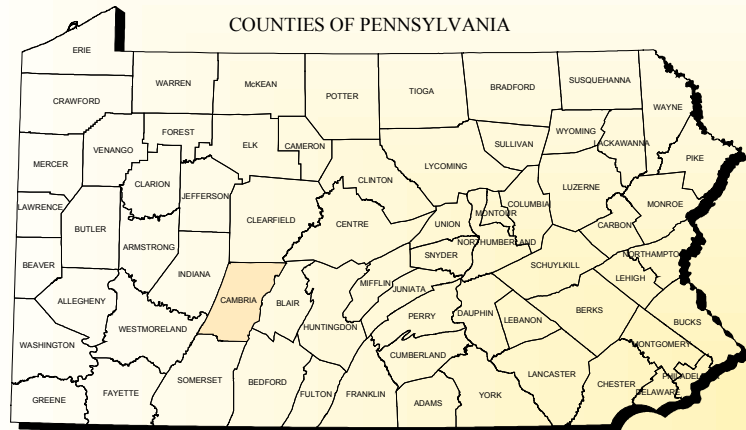


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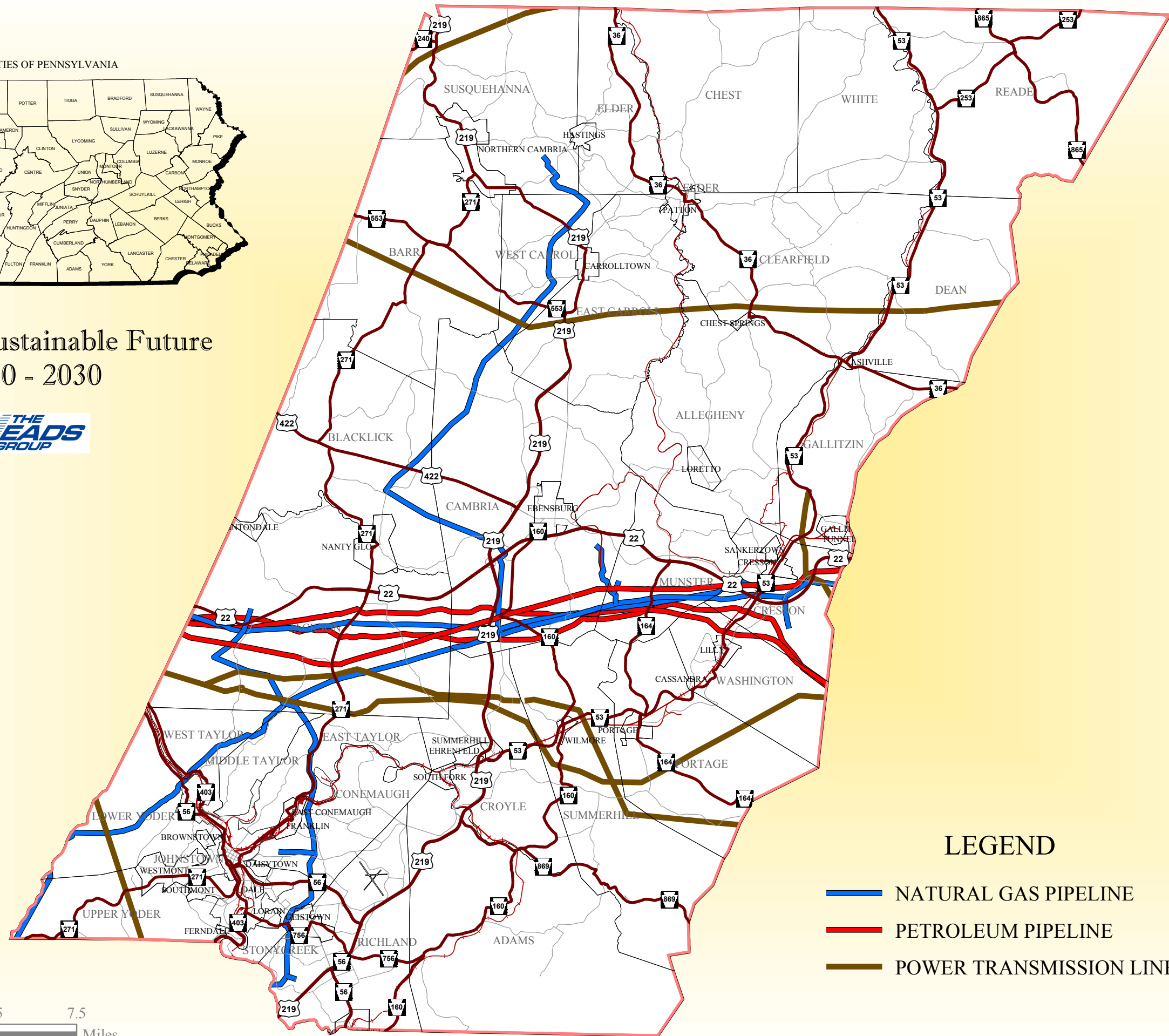
Utility Pipelines

Natural Gas and Petroleum pipelines are limited in the County and those that do exist are generally confined in an east-west corridor parallel to US Rt 22 in the central portion of the County. A Texas Eastern transmission line does exist through the county however the overall lack of additional high pressure transmission lines and more importantly adequate natural gas gathering lines is restricting the growth of the Marcellus Shale industry in the County.

It is anticipated more natural gas gathering lines and high pressure transmission lines will be constructed through the County as a result of the developing for Marcellus Shale gas industry. In addition to gathering and transmission lines, natural gas compressor and storage facilities, high pressure transmission lines and gathering lines are also anticipated to be constructed in the County to serve the industry. The time frame and location of these facilities will be driven by the number and success of natural gas wells that are anticipated to increase in the county. The map on the following page highlights the locations of existing pipelines in the County.



Toward a Sustainable Future
2010 - 2030



LEGEND

- NATURAL GAS PIPELINE
- PETROLEUM PIPELINE
- POWER TRANSMISSION LINE



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CAMBRIA COUNTY COMPREHENSIVE PLAN UTILITIES CORRIDORS



APRIL 2011

Other Public Utilities

Public utilities within Cambria County are provided by independent utility companies licensed by the Pennsylvania Public Utility Commission (PUC). Public utilities are vital to overall health and well-being of County residents and play a significant role in the County's attempts to foster economic development. This subsection localizes this information.

Electric

County residents receive electric service primarily from Penelec and in rural areas also from the REA Energy Cooperative.

Summerhill Borough is unique in the County as it distributes electric service to all borough residents and businesses as well as some residents just outside of the Borough. The Borough has a contract with Amp-Ohio which runs thru the year 2017. The Borough owns a "bucket" truck and employs an electrician. Electricity is directed through the Summerhill Borough Municipal Light Plant located within the Borough.

Natural Gas

Natural Gas is not available in all County municipalities. Those municipalities that do receive natural gas service from the Dominion Peoples Gas Company.

Telephone

Verizon is identified as the major provider of basic local telephone service in the County. In addition, there are other national or regional providers of long distance landline and cell telephone service in the area.

Cable Television

Atlantic Broadband and Comcast are identified as the major provider of cable television service in the County

Telecommunications

With the ever increasing demand and need for wireless communication and data transfer capabilities associated with high tech companies, the availability of cellular voice and data coverage is important to the long term vitality of the County. Nationally recognized wireless service providers, including Alltel, Verizon Wireless, Sprint, Nextel and AT&T were reviewed for their service capabilities in the County. In general terms, portions of the County are covered by at least one and in many areas multiple of these national service providers. However, not all areas of the Region are equal in terms of their access to the range of modern digital communication services such as cellular service, high speed internet and related services.

Cambria Connected

Cambria County has been working to fulfill an FCC mandate that requires the changing and replacement of the communication infrastructure for all public safety organizations within the County. While complying with the mandate, it inspired a vision not only to improve public safety communications but also to increase economic development opportunities for the County by providing advanced telecommunication services to the residents and businesses of the County. The following describes this opportunity.

In 2007, the Cambria County Commissions unveiled a multi-service communication network that provides voice, video and high-speed data communications. Cambria Connected is a locally owned and operated broadband internet network. The system provides strategic communications upgrades to the Cambria 911 system and police, ambulance and fire communications throughout most of the County. In addition, the system is available for a fee to businesses, industry, schools, universities and residents.

Cambria Connected was established as a partnership between the County and the residents of the County to create jobs, support local businesses, and provide economic opportunities for Cambria County residents. According to information provided in the Cambria Connected website, the Cambria Connected Network consists of 19 core towers and predominately uses line of sight radios. There are WiFi units providing wireless internet access at at least 27 hotspots throughout Cambria County.

In most cases it will bring technologically-advanced communication capabilities to all of Cambria County, even in areas that have traditionally been unable to receive these types of services from national providers.

The benefits of this County wide network include:

- Provide new communication services for government, public safety, businesses, education & residences.
- Improve the coverage and service for police, fire, and other first responders by replacing the majority of existing public safety infrastructure.
- Consolidate and replace the County's existing communication infrastructure.
- Provide advanced broadband internet connectivity throughout the County.
- Provide advanced internet services for the County.
- Open opportunities for economic development.
- Create greater opportunities for employment.
- Strengthen the tax base by offering advanced connectivity for businesses.
- Provide opportunities for families to stay connected and be able to do business anywhere in the world, right from their homes or workplace.
- Make available high-speed internet service at an affordable price.
- Provide IP telephone.
- Offer mobile data communications.
- Supply remote classrooms for education.
- Monitoring of dams and waterways.
- Provide remote video surveillance for schools.

Summary

Generally, public water service, sanitary sewer service, and telecommunications services and facilities are more readily available in the Southern and Central regions of the County and are limited in the more rural northern region. The water and sewer service providers in the County are adequate in terms of meeting the water and sewer demands of the existing and near-future customer base.

- ❑ The 43 community water systems serving Cambria County are comprised of small, medium, and large public water systems that serve nearly 126,000 people representing approximately 87% of the County's population base.
- ❑ The combined average daily production for the 43 community water systems is greater than 18 million gallons per day.
- ❑ The combined maximum daily production for the 43 community water systems is greater than 24 million gallons per day while the total design capacity on the water systems is just more than 39 million gallons per day.
- ❑ The total storage capacity for the 43 community water systems is approximately 54.5 gallons of finished water.
- ❑ Water Supply Planning in Cambria County is consistent with the State Water Plan in terms of a fundamental understanding that an integrated water supply management approach involving the following topics is necessary to ensure water quality and supply for all potential users in Cambria County.
- ❑ Issues facing water system providers include repair and replacement of an aging infrastructure system that will require securing federal and state funding to help offset the increasing costs of providing safe and reliable public drinking water.
- ❑ Many of the smaller community water systems could be better served from both a cost effective and regulatory approach by a joint, multi-municipal, or regional water system.
- ❑ The County is served by 26 state permitted public sewer systems with the majority being owned and operated by municipal authorities.
- ❑ The guiding factors for future sanitary sewer upgrade and repair projects are state level regulatory issues including Inflow & Infiltration Corrective Actions and the Chesapeake Bay Strategy.
- ❑ Recent sewage related planning has been completed in the Forest Hills Region where nineteen proposed sewage expansion areas have been identified.
- ❑ Natural Gas transmission and gathering pipelines will continue to play a major role in the development of the Marcellus Shale Industry in the County.
- ❑ While most of the areas have the basic components of electric and telephone service, many of the rural townships lack one or more of the remaining components of a community infrastructure, not an uncommon characteristic in rural sections of central Pennsylvania.
- ❑ The advent of the County supported Cambria Connected wireless network has expanded telecommunication and information technology infrastructure to rural Cambria County.
- ❑ The following tables provide a matrix of the sewer and water providers and other public utilities and availability by municipality.

TABLE PU-3
Community Infrastructure Summary
Cambria County Planning Region 1 – Southern Region

Municipality	Sewer Provider	Water Provider	Electric	Gas	Telephone	Television
Adams Township	Forest Hills Muni. Auth. Adams Township Muni. Auth. Windber Area Auth. (treatment) Private On-Lot Septic Systems	Highland Sewer & Water Auth. Adams Township Water Auth.	Penelec REA	Dominion Peoples	Verizon	Comcast
Brownstown Borough	Johnstown Regional Sewage	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Conemaugh Township	Johnstown Regional Sewage Pegasus Sewer Auth. Jackson - East Taylor Sewer Auth.	Greater Johnstown Water Auth. Southwestern Cambria Cnty Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Daisytown Borough	Pegasus Sewer Auth. Johnstown Regional Sewage	Southwestern Cambria Cnty Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Dale Borough	Johnstown Regional Sewage	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
East Conemaugh Borough	Jackson - East Taylor Sewer Auth. Johnstown Regional Sewage	Greater Johnstown Water Auth.	Penelec	-	Verizon	Comcast
East Taylor Township	Johnstown Regional Sewage Jackson - East Taylor Sewer Auth. Forest Hills Muni. Auth.	East Taylor Muni Auth. Croyle Twp Water Auth. Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Ferndale Borough	Upper Yoder Township Sewer Auth. Johnstown Regional Sewage	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Franklin Borough	Johnstown Regional Sewage Pegasus Sewer Auth.	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Geistown Borough	Johnstown Regional Sewage Highland Sewer and Water Auth.	Highland Sewer & Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
City of Johnstown	Johnstown Regional Sewage	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband

Source: The EADS Group, 2011

Cambria County Planning Region 1 – Southern Region (cont.)

Municipality	Sewer Provider	Water Provider	Electric	Gas	Telephone	Television
Lorain Borough	Johnstown Regional Sewage	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Lower Yoder Township	Johnstown Regional Sewage Lower Yoder Dept. of Sewage	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Middle Taylor Township	Johnstown Regional Sewage	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Richland Township	Windber Area Auth. Forest Hills Muni. Auth. Pegasus Sewer Auth.	Highland Sewer & Water Auth. Southwestern Cambria Cnty Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Scalp Level Borough	Windber Area Auth.	Winder Area Auth.	Penelec	Dominion Peoples	Verizon	Comcast
Southmont Borough	Upper Yoder Township Sewer Auth. Johnstown Regional Sewage	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Stonycreek Township	Highland Sewer and Water Auth. Highland Sewer and Water Auth. Pegasus Sewer Auth.	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Upper Yoder Township	Upper Yoder Township Sewer Auth. Johnstown Regional Sewage	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
Westmont Borough	Upper Yoder Township Sewer Auth. Lower Yoder Dept. of Sewage Johnstown Regional Sewage	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
West Taylor Township	Johnstown Regional Sewage	Greater Johnstown Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband

Source: The EADS Group, 2011

TABLE PU-4
Community Infrastructure Summary
Cambria County Planning Region 2 – Central Region

Municipality	Sewer Provider	Water Provider	Electric	Gas	Telephone	Television
Allegheny Township	Loretto Borough Sewer Dept. Federal Corrections Institute	Federal Corr Institute Loretto Gallitzin Boro Water Auth. Loretto Boro Water Sys	REA	No Service	Verizon	
Ashville Borough	Ashville Borough Sewer Dept.	Private Well Water	Penelec	-	Verizon	Comcast
Blacklick Township	Nanty Glo Sanitary Sewer Auth. Blacklick Valley Regional Auth.	Blacklick Valley Muni Auth. Ebensburg Boro Muni Auth. Teakettle Run Water Auth.	Penelec REA	Dominion Peoples	Verizon Wind Stream	Comcast
Cambria Township	Cambria Township Sewer Auth. Ebensburg Borough Muni. Auth.	Cambria Twp Water Auth. Croyle Twp Water Auth. Ebensburg Boro Muni Auth. N E Trailer Court Nanty Glo Water Auth.	Penelec	Dominion Peoples	Verizon/ Wind Stream	Comcast
Cassandra Borough	Central Mainline Sewer Auth.	Portage Boro Muni Auth.	Penelec	-	Verizon	Comcast
Cresson Borough	Cresson Borough Muni. Auth. Cresson Township Muni. Auth. Sankertown Borough Muni. Auth.	Cresson Boro Water Sys Highland Sewer & Water Auth.	Penelec	Dominion Peoples	Verizon	Comcast
Cresson Township	Cresson Borough Muni. Auth. Central Mainline Sewer Auth.	Cresson Boro Water Sys Cresson Twp Muni Auth. Sankertown Boro Water Sys Highland Sewer & Water Auth.	Penelec	Dominion Peoples	Verizon	Comcast
Croyle Township	Forest Hills Muni. Auth. Private On-Lot Septic Systems	Highland Sewer & Water Auth. Croyle Township Water Auth. Tri-Township Water Auth.	Penelec	Dominion Peoples	Verizon	Comcast

Source: The EADS Group, 2011

Cambria County Planning Region 2 – Central Region (cont.)

Municipality	Sewer Provider	Water Provider	Electric	Gas	Telephone	Television
Croyle Township	Forest Hills Muni. Auth. Private On-Lot Septic Systems	Highland Sewer & Water Auth. Croyle Township Water Auth. Tri-Township Water Auth.	Penelec	Dominion Peoples	Verizon	Comcast
Ebensburg Borough	Ebensburg Borough Muni. Auth.	Ebensburg Boro Muni Auth. Greater Johnstown Water Auth. Jackson Twp Water Auth.	Penelec	Dominion Peoples	Verizon	Comcast
Ehrenfeld Borough	Forest Hills Muni. Auth.	Highland Sewer & Water Auth.	Penelec	Dominion Peoples	Verizon	Comcast
Gallitzin Borough	Gallitzin Borough Sewage Disposal Auth.	Gallitzin Boro Water Auth.	Penelec	-	Verizon	Comcast
Gallitzin Township	Gallitzin Borough Sewage Disposal Auth. Cresson Township Muni. Auth.	Gallitzin Boro Water Auth. Highland Sewer & Water Auth.	Penelec REA	Dominion Peoples	Verizon	Comcast
Jackson Township	Jackson - East Taylor Sewer Auth. Nanty Glo Sanitary Sewer Auth. Blacklick Valley Regional Auth.	Jackson Twp Water Auth. Blacklick Valley Muni Auth. Croyle Twp Water Auth. Ebensburg Boro Muni Auth.	Penelec REA	Dominion Peoples	Verizon	Atlantic Broadband Comcast
Lilly Borough	Central Mainline Sewer Auth.	Highland Sewer & Water Auth. Lilly Muni Water Works	Penelec	-	Verizon	Comcast
Loretto Borough	Loretto Borough Sewer Dept.	Loretto Boro Water Sys St Francis College System	Penelec	-	Verizon	Comcast
Munster Township	Private On-Lot Septic Systems	Private Well Water	Penelec REA	Dominion Peoples	Verizon	
Nanty Glo Borough	Blacklick Valley Regional Auth. Nanty Glo Sanitary Sewer Auth.	Nanty Glo Water Auth.	Penelec	Dominion Peoples	Verizon	Comcast
Portage Borough	Portage Area Sewer Auth.	Portage Boro Muni Auth.	Penelec	Dominion Peoples	Verizon	Comcast

Source: The EADS Group, 2011

Cambria County Planning Region 2 – Central Region (cont.)

Municipality	Sewer Provider	Water Provider	Electric	Gas	Telephone	Television
Portage Township	Portage Area Sewer Auth. Central Mainline Sewer Auth.	Portage Boro Muni Auth. Highland Sewer & Water Auth Tri Twp Water Auth.	Penelec REA	Dominion Peoples	Verizon	Comcast
Sankertown Borough	Cresson Borough Muni. Auth. Cresson Township Muni. Auth. Sankertown Borough Sewer Auth.	Sankertown Boro Water Sys Highland Sewer & Water Auth.	Penelec	Dominion Peoples	Verizon	Atlantic Broadband
South Fork Borough	Forest Hills Muni. Auth.	Highland Sewer & Water Auth.	Penelec	Dominion Peoples	Verizon	Comcast
Summerhill Borough	Forest Hills Muni. Auth.	Highland Sewer & Water Auth. Tri Twp Water Auth.	Borough Provides	Dominion Peoples	Verizon	Comcast
Summerhill Township	Forest Hills Muni. Auth. Private On-Lot Septic Systems	Highland Sewer & Water Auth. Tri Twp Water Auth.	Penelec REA	Dominion Peoples	Verizon	Comcast
Tunnelhill Borough	Gallitzin Borough Sewage Disposal Auth.	Gallitzin Boro Water Auth.	Penelec	-	Verizon	Comcast
Vintondale Borough	Blacklick Valley Regional Auth.	Blacklick Valley Muni Auth.	Penelec	-	-	Comcast
Washington Township	Central Mainline Sewer Auth.	Highland Sewer & Water Auth. Lilly Muni .Water Works	Penelec REA	Dominion Peoples	Verizon	Comcast
Wilmore Borough	Forest Hills Muni. Auth.	Highland Sewer & Water Auth.	Penelec	Dominion Peoples	Verizon	Comcast

Source: The EADS Group, 2011

TABLE PU-5
Community Infrastructure Summary
Cambria County Planning Region 3 – Northern Region

Municipality	Sewer Provider	Water Provider	Electric	Gas	Telephone	Television
Barr Township	West Branch Sewer Auth.	Marsteller Comm Water Auth. Teakettle Run Water Auth.	Penelec	-	Verizon Wind stream	-
Carrolltown Borough	Carrolltown Boro Muni. Auth.	Carrolltown Boro Muni. Auth.	Penelec	-	Verizon	Comcast
Chest Springs Borough	-	-	Penelec	-	Verizon	-
Chest Township	-	Glendale Valley Muni. Auth.	REA	-	Verizon	-
Clearfield Township	Patton Muni. Auth.	Captains Quarters Patton Boro Water Dept	Penelec REA	-	Verizon	Comcast
Dean Township	Ashville Borough Sewer Dept.	Dean Twp Water Sys	Penelec REA	-	Verizon	Comcast
East Carroll Township	Carrolltown Boro Muni. Auth.	Carrolltown Boro Muni Auth. Kings II Mobile Home Park	Penelec REA	-	Verizon	Comcast
Elder Township	Hastings Area Sewer Auth.	Elder Twp Water Auth. Hastings Muni Auth.	Penelec REA	Dominion Peoples	Verizon	Comcast
Hastings Borough	Hastings Area Sewer Auth.	Hastings Muni Auth.	Penelec	-	Verizon	Comcast
Northern Cambria Borough	West Branch Sewer Auth.	Spangler Muni Auth. N. Cambria Water Dept.	Penelec	-	Verizon	Comcast
Patton Borough	Patton Muni. Auth.	Patton Boro Water Dept	Penelec	-	Verizon	Comcast
Reade Township	Glendale Valley Muni. Auth.	Reade Twp Muni Auth.	Penelec	-	Verizon	Comcast
Susquehanna Township	Hastings Area Sewer Auth. West Branch Sewer Auth.	Hastings Muni Auth. Northern Cambria Muni Water	Penelec	Dominion Peoples	Verizon	Comcast
West Carroll Township	West Branch Sewer Auth.	Carrolltown Boro Muni Auth. W Carroll Twp W&S Auth. St Benedict	Penelec	Dominion Peoples	Verizon	Comcast
White Township	Glendale Valley Muni. Auth.	Glendale Valley Muni. Auth. Noels Trailer Court Zimmies Campground	Penelec	-	Verizon	Cooney Cable

Source: The EADS Group, 2011