Great Bend Township - Susquehanna

Site **8**



Site Location

Municipality: Great Bend Township

Property Owner: Great Bend Township

Tax Parcel ID: 053.00-2-008.00

Deed Reference: 201302434

Site Acreage: 30.10 acres

Site Resources

Infrastructure (Water & Sewer):

There is no public water or sewer available at this site. On-lot well and septic are available.

Site Access:

Currently there is access built to the site, off State Route 171 however, parking at this location is limited.

Existing Terrain:

The site is hilly with a majority of the area slopes ranging from 8-30%. Soils at the site are stony, gravelly, and sandy loams. A majority of the south face of site is within the floodplain region. The southern property line border is near the Susquehanna River.

Railroad Availability:

The Central New York Rail Road Corporation is parallel to State Route 171. This is not on the property boundary. For railroad service availability other properties should be reviewed.

Floodplain Regions:

The site is not within a floodplain region.

Wetlands (NWI Review):

Potential wetlands are located within the south face of the site.

PNDI (Environmental Review):

There are no known impacts currently at the site. PA Fish and Boat Commission denote this area to be a conservation measure area based on the proximity to the river waterway. Thus, the PFBC requires that riparian buffers are retained or restored and streambanks remain stable.

Site Amenities

Accessible Public Water/Sewer:

Yes, on-lot well and septic are available.

Electric Service Availability:

Yes, 3-Phase power on-site.

Communication-Fiber:

Not currently available.

Natural Gas Service Availability:

There are no natural gas lines near the location.

Non-Potable Water Source:

Potential Water Source:

North Branch Susquehanna River (WWM, MF),

Air Quality:

Attainment Area

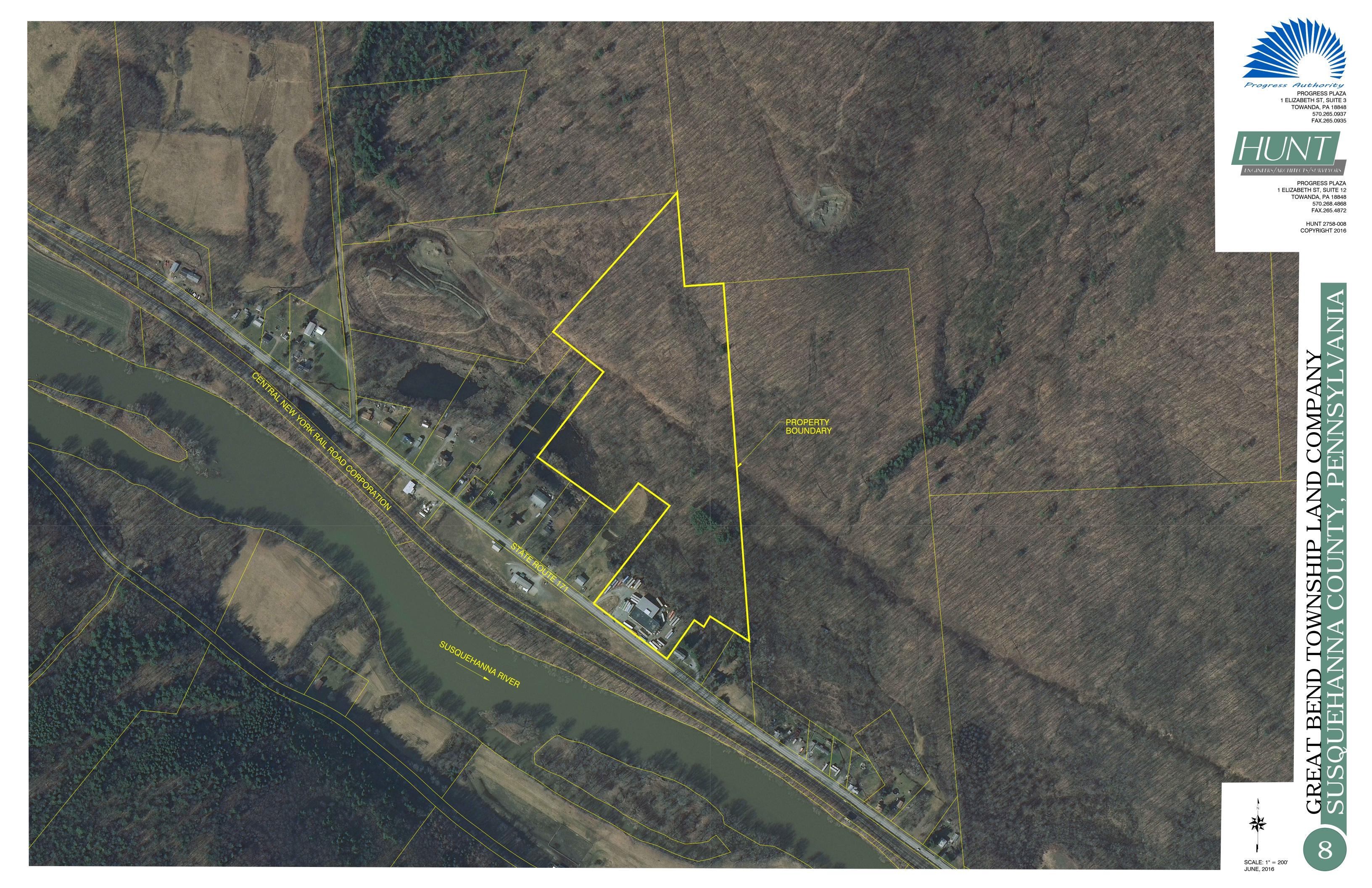
Local Regulations

- SALDO
 - Yes, Susquehanna County
- Zoning Ordinance
 - ➤ No
- ACT 167 Watershed
 - Yes, Salt Lick Creek
- Building Permit Required
 - Yes, Great Bend Township.
- Driveway Permit Required
 - Yes, PennDOT occupancy permit is required.









NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Pennsylvania State Plane, north zone (FIPSZONE 3701). The horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, WNGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at

Base map information shown on this FIRM was originated from PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey. The imagery was derived from aerial photography flown at 1-foot ground sample distance in April 2005.

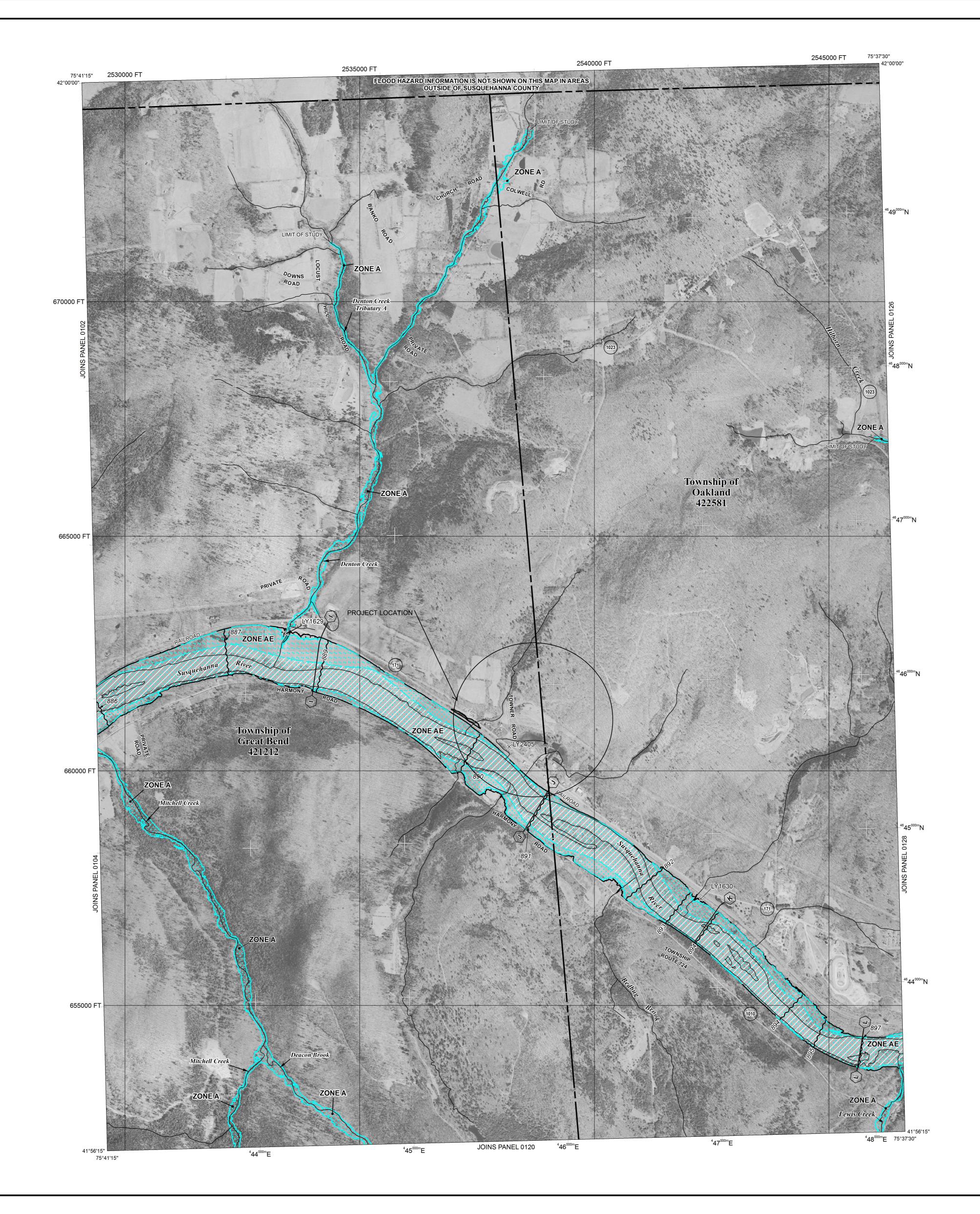
Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Information eXchange at 1-877-336-2627 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Information eXchange may also be reached by Fax at 1-800-358-9620 and its website at http://msc.fema.gov.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

No Base Flood Elevations determined.

Base Flood Elevations determined.

ZONE A

ZONE X

ZONE D

²⁴76^{00 0m}N

M1.5

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined. Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average

depths determined. For areas of alluvial fan flooding, velocities also

Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations

Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with

average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

Areas determined to be outside the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary Zone D boundary

CBRS and OPA boundary •••••

Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities. Limit of Moderate Wave Action

~~~ 513 ~~~~ Base Flood Elevation line and value; elevation in feet\* Base Flood Elevation value where uniform within zone; elevation (EL 987)

\* Referenced to the North American Vertical Datum of 1988 Cross section line

(23)-----(23) Transect line ----

Culvert, Flume, Penstock or Aqueduct =Road or Railroad Bridge

**Footbridge** 87°07'45", 32°22'30" Geographic coordinates referenced to the North American

Datum of 1983 (NAD 83), Western Hemisphere 1000-meter Universal Transverse Mercator grid values, zone 18

5000-foot grid values: Pennsylvania State Plane coordinate

600000 FT system, North zone (FIPSZONE 3701), Lambert Conformal Conic Bench mark (see explanation in Notes to Users section of this DX5510 ×

MAP REPOSITORY Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE

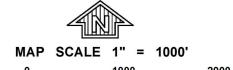
April 2, 2013 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

FLOOD INSURANCE RATE MAP

For community map revision history prior to countywide mapping, refer to the Community

Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



# PANEL 0110C

# **FIRM** FLOOD INSURANCE RATE MAP

SUSQUEHANNA COUNTY, PENNSYLVANIA

**PANEL 110 OF 490** 

(ALL JURISDICTIONS)

置

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITYNUMBERPANELSUFFIXGREAT BEND, TOWNSHIP OF4212120110COAKLAND, TOWNSHIP OF4225810110C

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



42115C0110C **EFFECTIVE DATE** 

**APRIL 2, 2013** 

MAP NUMBER

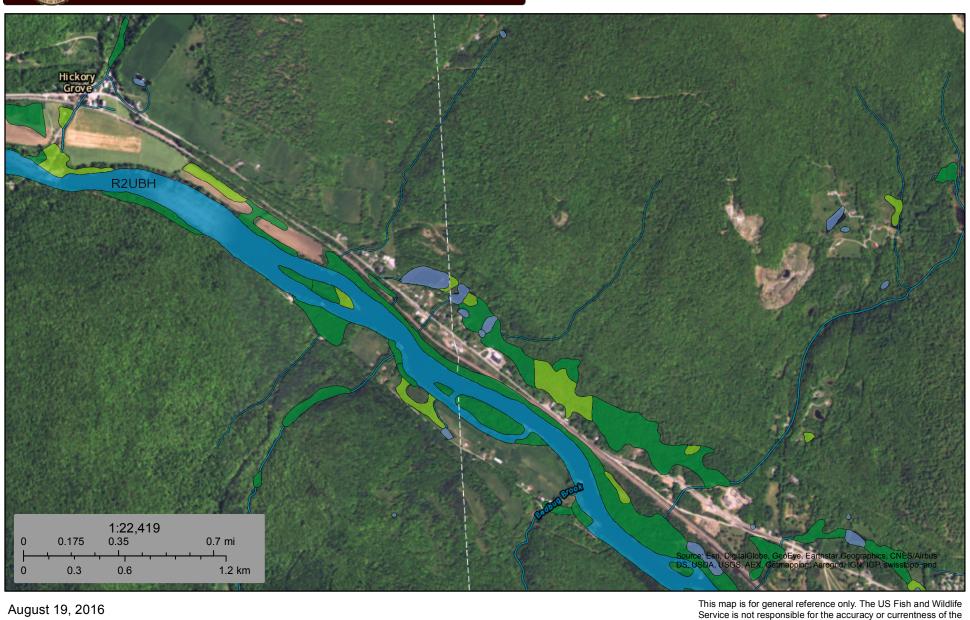
Federal Emergency Management Agency



Freshwater Emergent Wetland

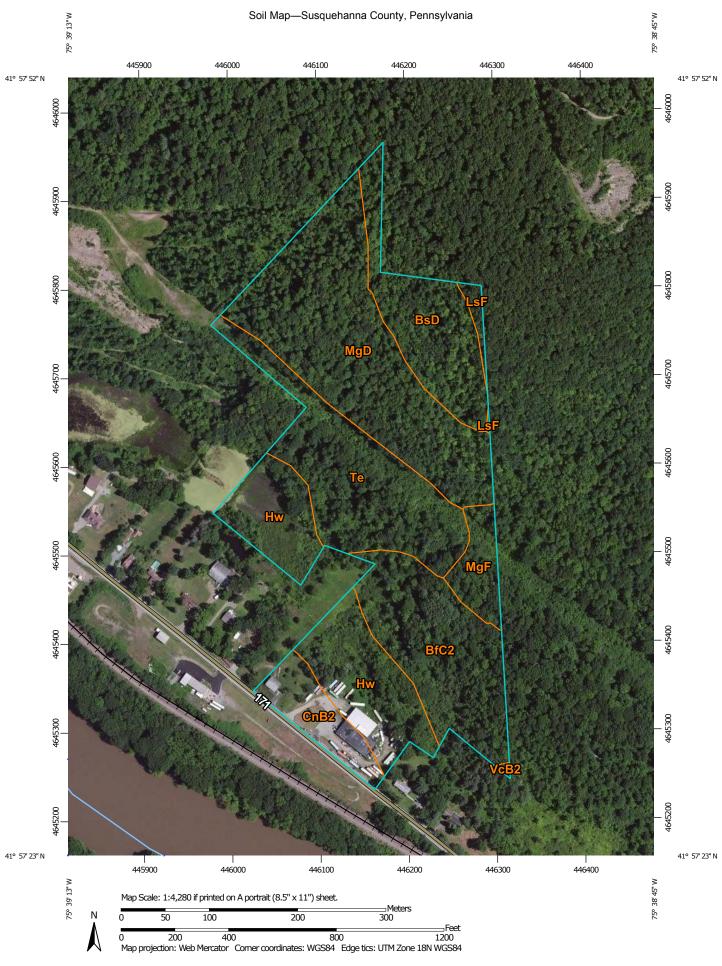
Lake

## Great Bend - Susquehanna



Estuarine and Marine Deepwater Freshwater Forested/Shrub Wetland Other Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Estuarine and Marine Wetland Freshwater Pond Riverine



#### MAP LEGEND

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons



Soil Map Unit Points

#### Special Point Features

Blowout

☑ Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

A Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

#### )L.1D

Spoil Area

Stony Spot

Nery Stony Spot

Wet Spot

Other

Special Line Features

#### **Water Features**

Streams and Canals

#### Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

#### Background

Aerial Photography

#### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Susquehanna County, Pennsylvania Survey Area Data: Version 10, Nov 16, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 20, 2011—Jul 5, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



## **Map Unit Legend**

| Susquehanna County, Pennsylvania (PA115) |                                                                           |              |                |  |
|------------------------------------------|---------------------------------------------------------------------------|--------------|----------------|--|
| Map Unit Symbol                          | Map Unit Name                                                             | Acres in AOI | Percent of AOI |  |
| BfC2                                     | Bath flaggy loam, 12 to 20 percent slopes, moderately eroded              | 5.8          | 16.1%          |  |
| BsD                                      | Bath very stony loam, 12 to 30 percent slopes                             | 4.1          | 11.4%          |  |
| CnB2                                     | Chenango gravelly silt loam, 3 to 12 percent slopes, moderately eroded    | 1.9          | 5.3%           |  |
| Hw                                       | Holly silt loam                                                           | 6.2          | 17.0%          |  |
| LsF                                      | Lordstown and Oquaga very<br>stony silt loams, 30 to 70<br>percent slopes | 0.3          | 0.8%           |  |
| MgD                                      | Mardin channery silt loam, 8 to 25 percent slopes, very stony             | 10.1         | 27.9%          |  |
| MgF                                      | Mardin channery silt loam, 25 to 50 percent slopes, very stony            | 1.3          | 3.7%           |  |
| Те                                       | Terrace escarpments                                                       | 6.4          | 17.7%          |  |
| VcB2                                     | Volusia channery silt loam, 3 to 8 percent slopes, eroded                 | 0.0          | 0.1%           |  |
| Totals for Area of Interest              |                                                                           | 36.2         | 100.0%         |  |

## Project Search ID: PNDI-611053

## 1. PROJECT INFORMATION

Project Name: **Great Bend - Susquehanna**Date of Review: **8/19/2016 04:59:13 PM**Project Category: **Development, Other** 

Project Area: **289.93 acres** County(s): **Susquehanna** 

Township/Municipality(s): OAKLAND

ZIP Code: 18847

Quadrangle Name(s): **GREAT BEND**Watersheds HUC 8: **Upper Susquehanna** 

Watersheds HUC 12: Canawacta Creek-Susquehanna River

Decimal Degrees: 41.960330, -75.639618

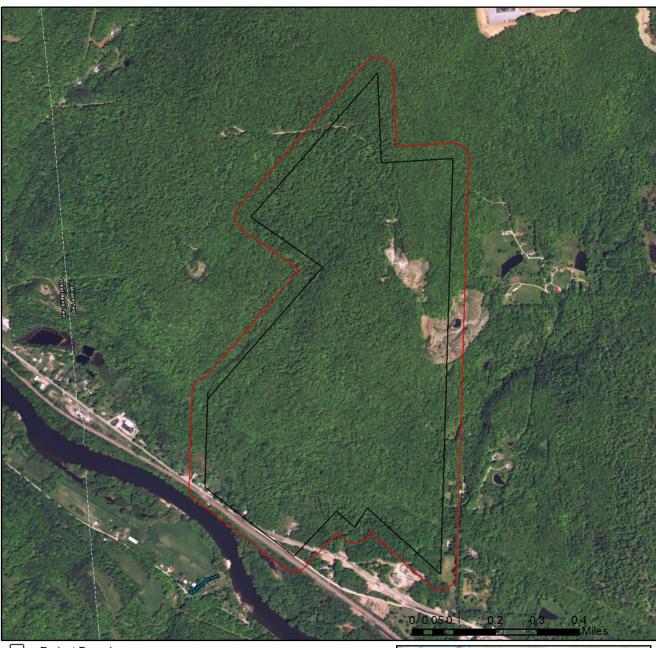
Degrees Minutes Seconds: 41° 57' 37.1890" N, 75° 38' 22.6230" W

## 2. SEARCH RESULTS

| Agency                                              | Results              | Response                                        |  |
|-----------------------------------------------------|----------------------|-------------------------------------------------|--|
| PA Game Commission                                  | No Known Impact      | No Further Review Required                      |  |
| PA Department of Conservation and Natural Resources | No Known Impact      | No Further Review Required                      |  |
| PA Fish and Boat Commission                         | Conservation Measure | No Further Review Required, See Agency Comments |  |
| U.S. Fish and Wildlife Service                      | No Known Impact      | No Further Review Required                      |  |

Pennsylvania Natural Diversity Inventory (PNDI) records indicate that while threatened and endangered and/or special concern species and resources are in the project vicinity and that recommended Conservation Measures should be implemented in their entirety to avoid and minimize impacts to these species, no further coordination is required with the jurisdictional agencies. If a DEP permit is required for this project, DEP has the discretion to incorporate one or more Conservation Measures into its permit. This response does not reflect potential agency concerns regarding potential impacts to other ecological resources, such as wetlands.

## Great Bend - Susquehanna



Project Boundary

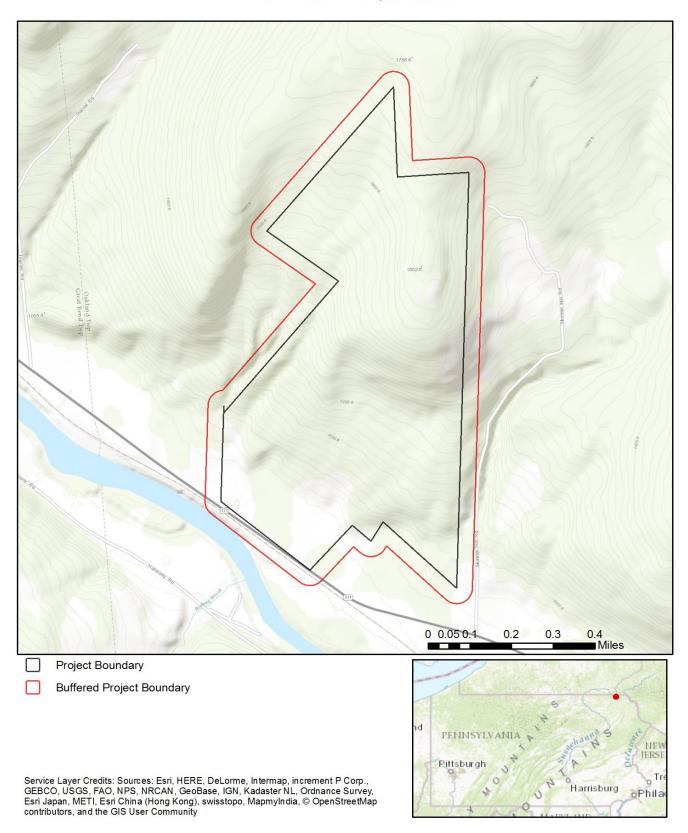
**Buffered Project Boundary** 

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, Mapmylndia, © OpenStreetMap contributors, and the GIS User Community
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA,

PENNSYLVAN

Pittsburgh

## Great Bend - Susquehanna



## 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

# PA Game Commission RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

# PA Department of Conservation and Natural Resources RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

# PA Fish and Boat Commission RESPONSE:

Conservation Measure: The natural flow regime and water quality in this watershed are important to maintaining habitats occupied by rare fish and mussels. PFBC recommends that you take measures to maintain a natural flow regime, high water quality, and quantity. Maintenance or restoration of the riparian corridor will aid in connecting habitats and improving water quality and quantity for fish and mussels. PFBC recommends retaining (or restoring, if not already present) a riparian buffer (100 to 300 feet, if possible) on each side of the waterway (river, stream, creek). This buffer should be vegetated with native plant species. When adequately vegetated, this upland buffer will act to stabilize the streambanks (preventing or minimizing erosion), and filter pollutants (e.g., sediment, fertilizers, pesticides, road salt, oil). Where streambanks have become badly eroded (e.g., due to previous removal of native riparian vegetation), streambank fencing and/or bioengineering restoration techniques are recommended (geotextile, root wads, vegetative stabilization), rather than riprapping the streambanks; removing gravel bars; or attempting to dredge, ditch, channelize, or widen the stream. Use stringent erosion and sedimentation controls before, during, and after project implementation to ensure that sediment and contaminants do not enter any waterway(s) (rivers, creeks, streams, tributaries) or waterbodies (lakes, ponds).

**PFBC Species:** (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

| Scientific Name       | Common Name        | Current Status           |
|-----------------------|--------------------|--------------------------|
| Alasmidonta marginata | Elktoe             | Special Concern Species* |
| Alasmidonta undulata  | Triangle Floater   | Special Concern Species* |
| Lampsilis radiata     | Eastern Lampmussel | Special Concern Species* |

# U.S. Fish and Wildlife Service RESPONSE:

Project Search ID: PNDI-611053

Project Search ID: PNDI-611053

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

- \* Special Concern Species or Resource Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
- \*\* Sensitive Species Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <a href="https://conservationexplorer.dcnr.pa.gov/content/resources">https://conservationexplorer.dcnr.pa.gov/content/resources</a>.



## 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (<a href="www.naturalheritage.state.pa.us">www.naturalheritage.state.pa.us</a>). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

## 6. AGENCY CONTACT INFORMATION

# PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section 400 Market Street, PO Box 8552 Harrisburg, PA 17105-8552

Email: RA-HeritageReview@pa.gov

Fax:(717) 772-0271

## **PA Fish and Boat Commission**

Division of Environmental Services 450 Robinson Lane, Bellefonte, PA 16823 Email: RA-FBPACENOTIFY@pa.gov

### U.S. Fish and Wildlife Service

Pennsylvania Field Office Endangered Species Section 110 Radnor Rd; Suite 101 State College, PA 16801 NO Faxes Please

### **PA Game Commission**

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat
Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC PNDI@pa.gov

Project Search ID: PNDI-611053

NO Faxes Please

## 7. PROJECT CONTACT INFORMATION

| Name:                         |                                                                                                | And Life 1991                                                                                                                       |
|-------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Company/Business Name:        |                                                                                                |                                                                                                                                     |
| Address:                      |                                                                                                | 251 Los (1) 30 M ]]                                                                                                                 |
| City, State, Zip:             |                                                                                                |                                                                                                                                     |
| Phone:()<br>Email:            | Fax:()                                                                                         |                                                                                                                                     |
| size/configuration, project t | ect information contained in this receipt (inc<br>ype, answers to questions) is true, accurate | luding project location, project<br>and complete. In addition, if the project type<br>ons that were asked during this online review |
| change, I agree to re-do the  | e online environmental review.                                                                 | ·                                                                                                                                   |
| applicant/project proponent   | signature                                                                                      | date                                                                                                                                |

Page 6 of 6