

# EMERGENCY ACTION PLAN

SURVEILLANCE, WARNING AND EVACUATION PROCEDURES

MARTINS CREEK (PA-467) DAM  
DEP NUMBER 058-131

LOCATED ACROSS AN UNNAMED TRIBUTARY TO MARTIN'S CREEK  
IN HARFORD TOWNSHIP, SUSQUEHANNA COUNTY

LATITUDE 41° 45' 53"    LONGITUDE 75° 44' 48"

SIZE CATEGORY "B"  
HAZARD POTENTIAL CATEGORY "1"

OPERATED BY: SHAWN ISBY, ROAD & BRIDGE DEPT.  
SUSQUEHANNA COUNTY  
ADDRESS: SUSQUEHANNA COUNTY COURTHOUSE  
P.O. BOX 218  
MONTROSE, PA 18801

TELEPHONE: BUSINESS: (570) 278-4600  
24 HOURS: (267) 733-7016

OWNED BY: SUSQUEHANNA COUNTY COMMISSIONERS  
ADDRESS: SUSQUEHANNA COUNTY COURTHOUSE  
P.O. BOX 218  
MONTROSE, PA 18801  
TELEPHONE: BUSINESS: (570) 278-4600  
24 HOURS: (607) 237-9399

DATE: MARCH 15, 2024

The logo for GPI, consisting of the letters 'GPI' in a bold, sans-serif font.

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## **PROMULGATION AND CONCURRENCE**

## PROMULGATION AND CONCURRENCE

We, the undersigned, on date indicated, have reviewed the requested support activity in the Emergency Action Plan for Martins Creek Dam (PA-467), DEP Number 058-131. Our support action will be executed in accordance with existing recommended operating guidelines and existing municipal or county emergency operation plans.



Alan M. Hall, Chairman

3-18-24

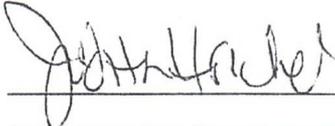
Date



David Darrow, Vice-Chair

3/18/24

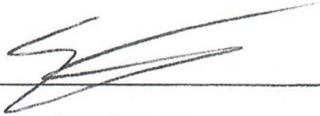
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Judith Herschel, Commissioner

3/19/24

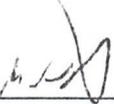
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Shawn Isby, Dam Operator

3/20/24

Date



Scott Aylesworth, Susquehanna EMA Coordinator

3/26/24

Date

## PEMA AND DEP APPROVALS

The Pennsylvania Emergency Management Agency approves the Emergency Action Plan for Martin's Creek Dam (D58-131).

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Director, PEMA Eastern Area Office

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Date

The Department of Environmental Protection, Division of Dam Safety, approves the Emergency Action Plan for Martin's Creek Dam (D58-131).

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Chief, Division of Dam Safety

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Date

## I. PURPOSE AND SCOPE

- A. To safeguard the lives as well as to reduce property damage of the citizens living within the dam's potential downstream flood or inundation area.
- B. To provide for effective dam surveillance, prompt notification to local emergency management agencies, citizen warning and evacuation response, when required.
- C. To identify emergency actions to be taken by the dam owner/operator, public officials, emergency personnel, and to outline response actions in the event of a potential or imminent failure of the dam.

## II. SITUATION

- A. The dam is a 52-foot high, 590-foot-long earthen embankment dam, maintaining a normal pool of 4 acre-feet of water with a maximum pool capacity of 180 acre-feet.
- B. The dam is located across and unnamed tributary to Martin's Creek, approximately 0.78 miles upstream of its confluence with Martin's Creek. The dam is located approximately 2,100 feet northeast of the intersection of US Route 11 and State Route 0106. Refer to the Location Map at *Attachment C*.
- C. The inundation area resulting from a sudden dam failure extends downstream along the unnamed tributary to Martin's Creek until its confluence with Martin's Creek, where it then extends upstream along Martin's Creek for approximately 0.80 miles. After the confluence of the unnamed tributary to Martin's Creek and Martin's Creek, the inundation area extends downstream along Martin's Creek for approximately 10.57 miles until its confluence with Tunkhannock Creek. After the confluence of Martin's Creek and Tunkhannock Creek, the inundation area extends downstream along Tunkhannock Creek for approximately 2.10 miles. Refer to the Inundation Map at *Attachment A*.
- D. Within the inundation area there are approximately 70 homes, 1 church, the Kingsley Post Office, Jenny Leigh's Country Cookin' Restaurant, and a few small businesses. Approximately 280 people would be impacted if the dam were to fail. Refer to the Inundation Map at *Attachment A*.

## III. CONCEPT OF OPERATIONS

- A. SURVEILLANCE — NORMAL CONDITIONS — (DAM OWNER OR OPERATOR)
  1. Shawn Isby, or a designated representative, will conduct an on-site visual inspection of the dam, the dam's spillway(s), control systems, and the toe area below the dam at a minimum of once every three months. Any abnormal or questionable conditions will be immediately brought to the attention of the owner's engineer and the Division of Dam Safety of DEP.
- B. SURVEILLANCE — UNUSUAL EVENT CONDITIONS (DAM WATCH)
  1. Shawn Isby, or a designated representative, will commence surveillance of conditions at the dam site when:
    - a. Severe thunderstorms, heavy rains with local flood warnings, tropical storms and hurricanes, or heavy rains with frozen ground and/or snow cover are occurring.

- b. The National Weather Service issues a flash flood watch or warning and conditions warrant.
- c. Any abnormal or questionable conditions as identified in *Section IID. I.*

#### C. EARLY WARNING NOTIFICATION

1. Shawn Isby, or a designated representative, is responsible for determining the dam's-threat potential. The following conditions constitute a dam early-warning notification to the Susquehanna County PSAP/911 and require 24-hour around - the - clock surveillance.
  - a. The water level in the impoundment area has reached the threshold level of 8 feet below the top of the dam and is rising or
  - b. Following the occurrence of an earthquake in the general region of the dam.
2. Early warning notification will be relayed from the Susquehanna County PSAP/911 to the Susquehanna County EMC, the PEMA State Commonwealth Response Coordination Center (CRCC) and all applicable emergency responders and designated government officials and agencies. Refer to *Section IV.B.* for additional notifications.

#### D. WARNING AND EVACUATION NOTIFICATION

1. Shawn Isby, or a designated representative, is responsible for determining the dam's threat potential. The following conditions constitute a dam emergency requiring warning and evacuation notification to the Susquehanna County PSAP/911.
  - a. The water level in the impoundment area has reached the threshold level of 5 feet below the top the dam, or
  - b. Imminent failure of this dam might be indicated by observance of one or more of the following conditions at the dam site:
    - i. The lake or pond level is at or near the top of the dam and water is flowing, or about to flow, over the top of the dam.
    - ii. The overflow pipe or spillway is damaged, or clogged with debris or ice, which is resulting in a rapid rise in the lake or pond level.
    - iii. The primary or emergency spillway is experiencing heavy flows which are causing severe erosion to the spillway or the dam embankment.
    - iv. Any structural movement or failure of the concrete spillway structure.
    - v. Any sloughing or sliding of the embankment upstream or downstream slope. Also, earth slides in the spillway channel, either upstream or downstream of the dam's crest, which could impede the flow in the spillway.
    - vi. Subsidence, sinkholes or cracks found in any part of the dam's embankment or abutting slopes.
    - vii. Any new discharge of water is observed through the dam's embankment or abutting slopes, adjacent to any conduit outlets, or under the dam, which appears as a boil along the downstream toe. Should such a discharge occur, and the water is cloudy or muddy in color, then a very serious problem exists.

2. Warning and evacuation notification will be relayed from the Susquehanna County PSAP/911 to the Susquehanna County EMC, the PEMA State CRCC and all applicable emergency responders and designated government officials and agencies. Refer to **Section IV.B.** for additional notifications.
3. Emergency management officials will accomplish the needed actions, which are explained in this EAP, in accordance with their existing recommended operating guidelines and existing municipal or county emergency operation plans.
4. Warning and evacuation of the public must commence upon notification by Shawn Isby, or a designated representative, of a potential or imminent failure of the dam. Emergency responders should initiate action in accordance with the plan outline and any existing internal organizational recommended operating guidelines, and existing municipal or county operation plans.

E. TERMINATION OF SURVEILLANCE AND NOTIFICATION

1. Shawn Isby, or a designated representative, may terminate 24 -hour surveillance of dam site conditions when:
  - a. All National Weather Service flash flood watches or warnings have expired,  
**And**
  - b. Heavy rains have ended and the water level in the lake has dropped 12 feet below the top of the dam and is receding.
  - c. After a personal inspection of the dam site has been conducted by a knowledgeable professional engineer following an earthquake, overtopping of the dam, or an evacuation of the inundation area as a result of this EAP, or other serious problems resulting in a notification of a dam site emergency and the Department concurs with the results of the inspection.
2. Upon termination of 24-hour surveillance of dam site conditions, Shawn Isby, or a designated representative, shall notify the Susquehanna County PSAP/911.
3. Termination of notifications will be relayed from the Susquehanna County PSAP/911 to the Susquehanna County EMC, the PEMA State CRCC and all applicable emergency responders and designated government officials and agencies. Refer to **Section IV.B.** for additional notifications.

**IV. RESPONSIBILITIES AND DUTIES - EMERGENCY RESPONSE**

A. DAM OWNER OR DAM OPERATOR (DAM SITE EMERGENCY)

1. Shawn Isby, or a designated representative, will provide for 24-hour on-site dam surveillance and monitoring as required in **Section III.C.1** and initiate early warning notification to the Susquehanna County PSAP/911.
2. When the situation meets the criteria under the warning and evacuation notification guidelines, presented in **Section III.D.1**, indicating a failure of the dam is possible or a significant threat condition is developing, Shawn Isby, or a designated representative, will initiate warning and evacuation communication to the Susquehanna County PSAP/911.

## B. SUSQUEHANNA COUNTY PSAP/911

1. The Susquehanna County PSAP/911 will notify:
  - a. Susquehanna County EMA
  - b. PEMA State CRCC
  - c. Pennsylvania State Police — Gibson Barracks
  - d. Harford Volunteer Fire Company
  - e. Hop Bottom Hose Company
  - f. Montrose Minute Men
  - g. Wyoming County PSAP/911
2. The Wyoming County PSAP/911 will notify:
  - a. Nicholson Borough
  - b. Nicholson Township

## C. SUSQUEHANNA COUNTY EMA

1. The Susquehanna County EMA will contact the following personnel and agencies:
  - a. National Weather Service
  - b. Harford Township EMA
  - c. Brooklyn Township EMA
  - d. Hop Bottom Borough EMA
  - e. Lathrop Township EMA
  - f. Media - Warning and/or Evacuation (Activate EAS). Refer to *Attachment E* Susquehanna County EOC staff, as necessary.
  - g. American Red Cross (when mass care or family assistance is required) - Coordinate sheltering per ESP 6 of County EOP.
  - h. Susquehanna County elected officials.
  - i. Pennsylvania Emergency Management Agency
  - j. PennDOT - District 4-5
2. The Susquehanna County EMA will ascertain and report to PEMA any unmet needs requirements.
3. The Susquehanna County EMA will initiate Damage Assessment and Recovery procedures as the situation requires.

## D. WYOMING COUNTY PSAP/911

1. The Wyoming County PSAP/911 will notify:
  - a. Wyoming County EMA
  - b. Pennsylvania State Police - Tunkhannock Barracks
  - c. Nicholson Fire Company #1

E. WYOMING COUNTY EMA

1. The Wyoming County EMA will contact the following personnel and agencies:
  - a. Nicholson Borough EMA
  - b. Nicholson Township EMA
  - c. Wyoming County EOC staff, as necessary
  - d. Wyoming County elected officials.
  - e. PennDOT - District 4 - 7
2. The Wyoming County EMA will ascertain and report to PEMA any unmet needs requirements.
3. The Wyoming County EMA will initiate Damage Assessment and Recovery procedures as the situation requires.

F. LOCAL MUNICIPAL EMA's

1. HARFORD TOWNSHIP EMA
2. BROOKLYN TOWNSHIP EMA
3. HOP BOTTOM BOROUGH EMA
4. LATHROP TOWNSHIP EMA
5. NICHOLSON BOROUGH EMA
6. NICHOLSON TOWNSHIP EMA
  - a. Advise facilities with special needs individuals as outlined in the Emergency Operations Plan (EOP) and identified by the Hazard Vulnerability Analysis (areas impacted due to a darn failure and indicated on the Inundation Map).
  - b. Notify municipal elected officials and municipal services (water, sewer, etc.).
  - c. Keep the County EMA apprised of the situation.
  - d. Coordinate the evacuation (where appropriate).
  - e. Provide damage reporting to the Susquehanna County EMC.

G. FIRE DEPARTMENTS

1. HARFORD VOLUNTEER FIRE COMPANY
2. HOP BOTTOM HOSE COMPANY
3. NICHOLSON FIRE COMPANY #1
  - a. Provide citizen notification and route alerting to advise residents living within their jurisdiction (See Inundation Map - *Attachment A*).
  - b. Assist in evacuation.
  - c. Assist police and EMS, as requested.
  - d. Provide communications support if feasible and requested.

H. POLICE SERVICES

1. PENNSYLVANIA STATE POLICE — GIBSON BARRACKS

2. PENNSYLVANIA STATE POLICE — TUNKHANNOCK BARRACKS

- a. Dispatch radio vehicle to dam site in order to provide alternate communications link to PSAP/911 — Pennsylvania State Police, Gibson Barracks.
- b. Assist evacuation traffic flow and establish traffic control points (TCP) at pre-designated locations (See Inundation Map — *Attachment A* and Traffic Control Points - *Attachment B*).
- c. Prevent unauthorized entry and provide security of evacuated areas.
- d. Provide assistance with route alerting, if requested.

I. EMERGENCY MEDICAL SERVICES (EMS)

1. MONTROSE MINUTE MEN
2. HARFORD VOLUNTEER FIRE COMPANY

- a. Provide evacuation transportation assistance and coordinate with designated fire services agencies for transportation of persons with disabilities and any special needs.
- b. Assist fire and police departments as requested.
- c. Provide EMS support to any mass care center as requested

J. AMERICAN RED CROSS

1. If requested by Susquehanna County EMA:
  - a. Identify and activate an appropriate shelter, as necessary.
  - b. Support and maintain operations of the reception center.
  - c. Maintain communications with County EMC, local EMA and reception center.

K. PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PennDOT)

1. PENNDOT DISTRICT 4 - 5
2. PENNDOT DISTRICT 4 - 7
  - a. Provide services, signs, barricades and guidance on roads and bridges affecting the evacuation and recovery.

V. ADMINISTRATION AND LOGISTICS

- A. The NOTICE (*Attachment F*) will be posted in the following public places located within or near the inundation area:
  1. Susquehanna County Emergency Management Agency Office
  2. Wyoming County Emergency Management Agency Office
  3. Harford Township Municipal Building
  4. Brooklyn Township Municipal Building
  5. Hop Bottom Borough Municipal Building
  6. Lathrop Township Municipal Building
  7. Nicholson Borough Municipal Building
  8. Nicholson Township Municipal Building
  9. Susquehanna County Commissioners Office

B. The NOTICE (*Attachment F*) must state that copies of the Emergency Action Plan for this dam are available for inspection at the following locations:

1. Susquehanna County Emergency Management Agency Office  
210 Public Way  
New Milford, PA 18834
2. Wyoming County Emergency Management Agency Office  
3880 SR6E, Suite One  
Tunkhannock, PA 18657
3. Harford Township Municipal Building  
4514 State Route 0547  
Harford, PA 18823
4. Brooklyn Township Municipal Building  
5569 Main Street  
Kingsley, PA 18826
5. Hop Bottom Borough Municipal Building  
20 Forest Street  
Hop Bottom, PA 18824
6. Lathrop Township Municipal Building  
Union Grange Hall  
2590 S.R. 2002  
Hop Bottom, PA 18824
7. Nicholson Borough Municipal Building  
17 Main Street  
Nicholson, PA 18446
8. Nicholson Township Municipal Building  
715 Field Brook Road  
Nicholson, PA 18446
9. Susquehanna County Commissioners Office  
Susquehanna County Courthouse  
31 Lake Avenue  
Montrose, PA 18801

C. A new NOTICE will be sent to those locations in paragraph "A" when the EAP is revised.

D. The dam owner is responsible to verify posting of the NOTICE and documenting the status in the annual inspection report.

## **VI. AUTHORITY AND REFERENCES**

### **A. AUTHORITY**

1. The Dam Safety and Encroachments Act (32 P.S. Sections 693.1-693.27), May 16, 1985.
2. The Pennsylvania Code -Title 25, Chapter 105 Dam Safety and Waterways Management, Section 105.63 and 105.134.
3. Emergency Management Services Code, 35 Pa C.S. Section 7101 et seq., as amended.

## B. REFERENCES

1. Guidelines for Developing an Emergency Action Plan for Hazard Category I, 2, & 3 Dams. Prepared by the Department of Environmental Protection, Water Management, Bureau of Waterways Engineering, Division of Dam Safety and the Pennsylvania Emergency Management Agency, January 2009.
2. Inspection, Maintenance and Operation of Dams in Pennsylvania. Prepared by the Department of Environmental Protection, Water Management, Bureau of Waterways Engineering, Division of Dam Safety, February 2009.
3. Susquehanna County Emergency Operations Plan.

## VII. DEFINITIONS

- A. **ABUTMENT** - The part of the valley's hillside against which the dam abuts. Right and left abutments are those on respective sides of the dam as an observer looks downstream.
- B. **AFFECTED COUNTIES/MUNICIPALITIES** - Those jurisdictions within Pennsylvania or adjoining states that, according to the inundation map, may experience flooding as a result of a failure of the dam.
- C. **BOIL** - A disturbance in the surface layer of soil caused by water escaping under pressure from behind a water-retaining structure such as a dam or a levee. The boil may be accompanied by deposition of soil particles (usually sand or silt) in the form of a ring (miniature volcano) around the area where the water escapes.
- D. **BREACH** - An opening or a breakthrough of a dam sometimes caused by rapid erosion of a section of earth embankment by water.
- E. **CONDUIT** - A pipe used to convey water through or around or under a dam.
- F. **CONTROL TOWER** - A structure in the dam or reservoir used to control the withdrawal of water from the reservoir through pipes or culverts.
- G. **CREST OF DAM** - The crown of an overflow section of the dam. In the United States, the term "crest of dam" is often used when "top of dam" is intended. To avoid confusion, the terms **crest of spillway** and **top of dam** should be used for referring to the overflow section and dam proper, respectively.
- H. **CULVERT** - (a) A drain or waterway structure built transversely under a road, railway, or embankment. A culvert usually comprises a pipe or a covered channel of box section.  
(b) A gallery or waterway constructed through any type of dam, which is normally dry but is used occasionally for discharging water; hence the terms scour culvert, draw off culvert and spillway culvert.
- I. **DAM** - A barrier built across a watercourse for impounding or diverting the flow of water.
- J. **DAM FAILURE** - The uncontrolled release of a dam's impounded water. It is recognized that there are degrees of failure. Any malfunction or abnormality, outside the design assumptions and parameters, which adversely affect a dam's primary function of impounding water is properly considered a failure. Minor malfunctions or abnormalities can result in a sudden failure of a dam.
- K. **EARTH DAM (EARTHFILL DAM)** - An embankment dam in which more than 50% of the total volume is formed of compacted fine-grained earth.
- L. **EMBANKMENT** - Fill material, usually earth or rock, placed with sloping sides.
- M. **EMERGENCY** - A condition of serious nature which develops unexpectedly and endangers the structural integrity of a dam or endangers downstream property and human life. An emergency requires immediate action.

- N. **EAP** - Emergency Action Plan - A formal document that identifies potential emergency conditions at a dam and specifies preplanned actions to be followed to minimize property damage and loss of life. It contains procedures and information to assist the dam owner in issuing early warning and notification messages to responsible downstream emergency management authorities of the emergency situation. It also contains inundation maps to show the emergency management authorities of the critical areas for action in case of an emergency.
- O. **EOP** - Emergency Operations Plan – “The document ... which describes the hazards, vulnerabilities, emergency management situations and assumptions that affect the municipality, the concept of operations during an emergency, and the various roles and assignments of the elected officials, emergency management coordinator and other emergency response personnel, whether paid or volunteer.” (From PEMA Directive D2007-1). The EOP includes checklists for known critical facilities, special facilities, critical personnel, hearing impaired residents, non-English speaking residents, residents requiring ambulance assistance, etc., as identified by local emergency management officials.
- P. **FACE** - With reference to a structure, the external surface that limits the structure, e.g., the face of a wall or dam.
- Q. **FAILURE** - An incident resulting in the uncontrolled release of water from an operating dam. See “Dam Failure”.
- R. **FOUNDATION OF DAM** - The natural material on which the dam structure is placed.
- S. **GROIN** - That area along the contact (or intersection) of the face of a dam with the abutment.
- T. **HAZARD** - A situation which creates the potential for adverse consequences such as loss of life, property damage, and adverse social and environmental impacts. Impacts may be for a defined area downstream of a dam from floodwaters released through spillways and outlet works of the dam or waters released by partial or complete failure of the dam. This could include an area upstream of the dam from effects of backwater flooding or effects of landslides around the reservoir perimeter.
- U. **INUNDATION AREA** - The downstream area that would be flooded or otherwise affected by the failure of a dam or large flows. This area can be subject to a fast-moving flood wave, 20 to 50 MPH is common, with a height of 1 foot to tens of feet.
- V. **INUNDATION MAP** - A map delineating the area that would probably be flooded in the event of a dam failure. This map must be prepared by a registered professional engineer.
- W. **NOTIFICATION** - To promptly inform appropriate individuals or emergency agency about an emergency condition so they can initiate appropriate actions.
- X. **NORMAL WATER LEVEL (NORMAL WATER POOL)**- For reservoir with a fixed overflow spillway crest, it is the lowest level of that crest.
- Y. **OPERATOR** - The person or position in a company or organization, who is responsible for a dam's operation and surveillance.
- Z. **OUTLET** -A constructed opening through which water can be safely discharged for a particular purpose from a reservoir.
- AA. **OWNER** - Any person, authority or agency that manages a dam or reservoir.
- BB. **PSAP** - Public Safety Answering Point - an agency in the United States, typically county or city controlled, responsible for answering 911 calls for emergency assistance from police, fire, and ambulance services.
- CC. **SEEPAGE** - The movement of water that might occur through the dam, its foundation or its abutments. Small amounts of clear water seepage is normal. Increase in the amount of water flow or change in color is a concern for a dam's safety.
- DD. **SLIDE** - The movement of a mass of earth down a slope. In embankments and abutments, this involves the separation of a portion of the slope from the surrounding materials.

- EE. **SPILLWAY** - A structure over or through which flows are discharged. If the flow is controlled by gates, it is considered a controlled spillway; if the elevation of the spillway crest is the only control, it is considered an uncontrolled spillway.
- FF. **SPILLWAY CHANNEL** - A channel conveying water from the spillway crest to the river downstream.
- GG. **TOE OF DAM** - The junction of the downstream face of a dam with the ground surface. Also referred to as downstream toe. For an embankment dam, the junction of the upstream face with ground surface is called the upstream toe.
- HH. **TOP OF DAM** - The elevation of the uppermost surface of a dam, usually a road or walkway, excluding any parapet wall, railings, etc.
- II. **TRAFFIC CONTROL POINT (TCP)** - Manned or unmanned posts established at critical road junctions for the purpose of controlling or limiting traffic. TCPs are used to control evacuation movement and also limit entry into the inundation area when an emergency situation requires it.
- JJ. **VOAD** - Voluntary Organizations Active in Disasters - collaboration of diverse organizations and citizens trained to meet community needs in the wake of a large-scale disaster.

### VIII. EXERCISE AND TRAINING

- A. The dam owner will advise and cooperate with the Susquehanna County and Wyoming County EMA of any exercises scheduled, and coordinate with the Susquehanna County and Wyoming County EMA to exercise all or portions of this EAP as part of the county's all-hazard exercise program schedule.

### IX. PLAN MAINTENANCE AND DISTRIBUTION

- A. This EAP will be reviewed every five years by the owner or the owner's engineer. During the five-year review:
  1. The owner or the owner's engineer will conduct an on-site review of the flood (inundation) area for any increase in downstream development and revise the Inundation Map, if needed.
  2. The owner's engineer will review and revise surveillance conditions as needed.
  3. The owner will coordinate with Susquehanna and Wyoming County EMA's if population increase or development within the inundation area could affect the emergency response requirements. If so, a new or revised plan must be developed.
  4. The owner will meet with and obtain concurrence from the Susquehanna and Wyoming County EMCs.
  5. The owner will submit 6 copies at a minimum of the revised plan to DEP for review and approval.
- B. A copy of the approved EAP will be distributed by the dam owner to those emergency response agencies listed in Section IV. DEP, Division of Dam Safety will distribute a copy of the approved EAP to PEMA's Area Office, the affected county Emergency Management Agency(s) and PSAP/911 Center(s), the National Weather Service, and the DEP's Regional Office. Within 60 days, the dam owner will submit a letter certifying distribution of the approved EAP and posting of NOTICE(s) to the DEP, Division of Dam Safety.

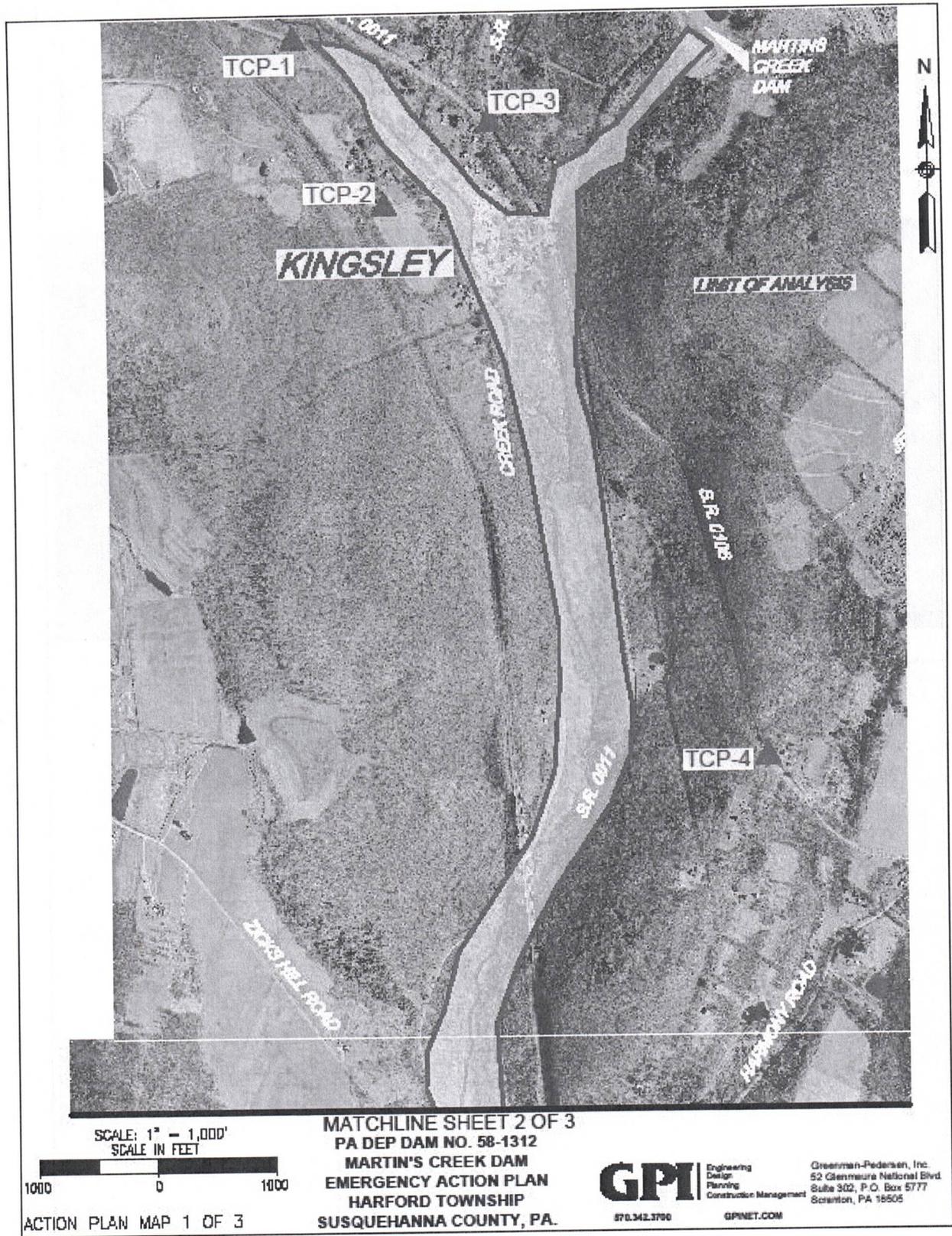
## **ATTACHMENTS:**

- ATTACHMENT A - INUNDATION MAP**
- ATTACHMENT B - TRAFFIC CONTROL POINTS**
- ATTACHMENT C - LOCATION MAP**
- ATTACHMENT D - TELEPHONE ROSTER**
- ATTACHMENT E - MEDIA ANNOUNCEMENT**
- ATTACHMENT F - NOTICE**





ATTACHMENT A - INUNDATION MAPS - 3 PAGES

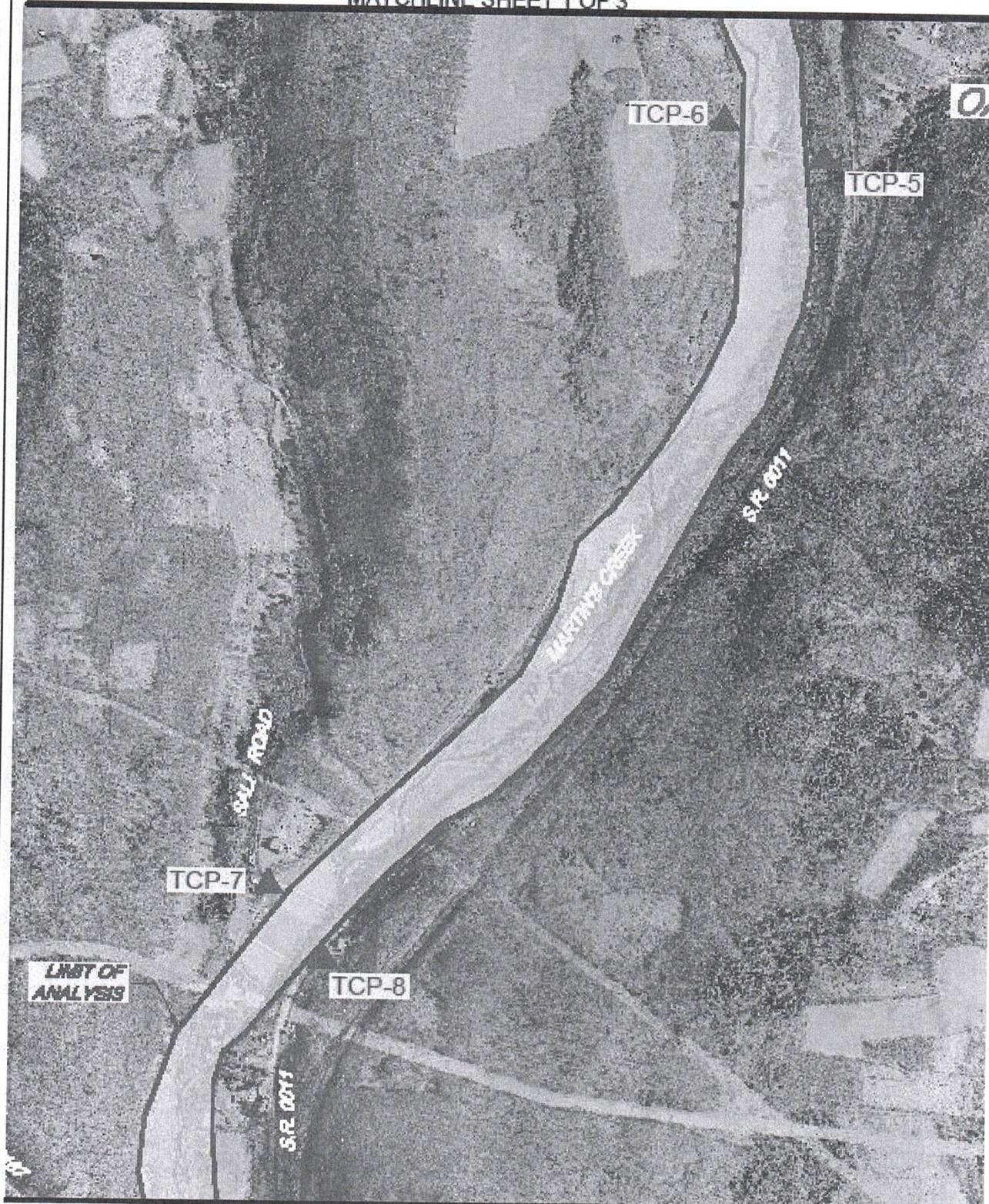


SCALE: 1" = 1,000'  
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ACTION PLAN MAP 1 OF 3

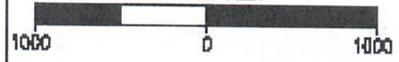
MATCHLINE SHEET 2 OF 3  
PA DEP DAM NO. 58-1312  
MARTIN'S CREEK DAM  
EMERGENCY ACTION PLAN  
HARFORD TOWNSHIP  
SUSQUEHANNA COUNTY, PA.

**GPI** Engineering  
Design  
Planning  
Construction Management  
870.342.3790  
GPINET.COM

Greenman-Pedersen, Inc.  
52 Glenmora National Blvd.  
Suite 302, P.O. Box 5777  
Scranton, PA 18505



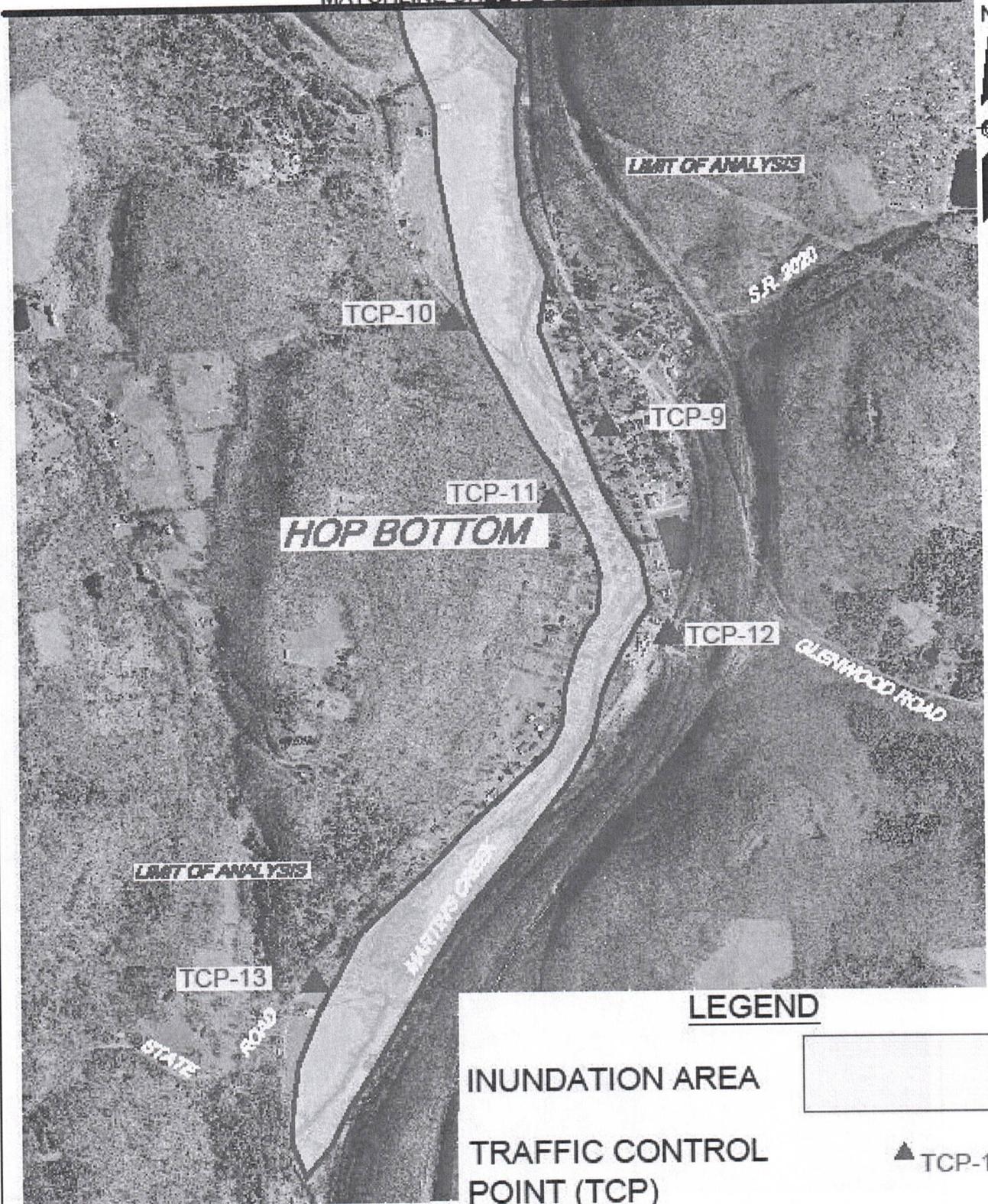
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SCALE IN FEET



MATCHLINE SHEET 3 OF 3  
 PA DEP DAM NO. 58-1312  
 MARTIN'S CREEK DAM  
 EMERGENCY ACTION PLAN  
 HARFORD TOWNSHIP  
 SUSQUEHANNA COUNTY, PA.

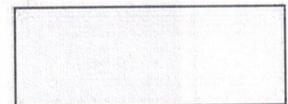
**GPI** Engineering  
 Design  
 Planning  
 Construction Management  
 870.342.3700  
 GPNET.COM

Greenman-Pedersen, Inc.  
 52 Glenmeade National Blvd.  
 Suite 302, P.O. Box 5777  
 Scranton, PA 18505



**LEGEND**

INUNDATION AREA



TRAFFIC CONTROL POINT (TCP)



SCALE: 1" = 1,000'  
SCALE IN FEET



PA DEP DAM NO. 58-1312  
MARTIN'S CREEK DAM  
EMERGENCY ACTION PLAN  
HARFORD TOWNSHIP  
SUSQUEHANNA COUNTY, PA.



Engineering  
Design  
Planning  
Construction Management

Greenman-Pedersen, Inc.  
52 Glenmora National Blvd  
Suite 302, P.O. Box 5777  
Scranton, PA 15505

# ATTACHMENT B

## TRAFFIC CONTROL POINTS

TCP- 1            On S.R. 2055 approximately 1,800 feet north of its intersection with S.R. 2024. Coordinates 41.764694, -75.759097

Maintained by: Pennsylvania State Police - Gibson Barracks or PennDOT District 4 or local fire departments.

TCP - 2            On S.R. 2024 approximately 300 feet west of its intersection with S.R. 2055. Coordinates 41.760880, -75.755543

Maintained by: Pennsylvania State Police- Gibson Barracks or PennDOT District 4 or local fire departments.

TCP - 3            At the intersection of US Route 11 and S.R. 0547. Coordinates 41.762649, -75.753201

Maintained by: Pennsylvania State Police - Gibson Barracks or PennDOT District 4 or local fire departments.

TCP-4            At the intersection of S.R. 106 and Jeffers Road. Coordinates 41.747672, -75.745145

Maintained by: Pennsylvania State Police - Gibson Barracks or PennDOT District 4 or local fire departments.

TCP-5            At the intersection of US Route 11 and Oakley Crossing. Coordinates 41.736410, -75.753206

Maintained by: Pennsylvania State Police- Gibson Barracks or PennDOT District 4 or local fire departments.

TCP - 6            On Zicks Hills Road approximately 1,700 feet northwest of its intersection with Creek Road and Oakley Crossing. Coordinates 41.740537, -75.758427

Maintained by: Pennsylvania State Police- Gibson Barracks or PennDOT District 4 or local fire departments.

TCP - 7            At the intersection of Creek Road and Wright Road. Coordinates 41.721259, -75.768242

Maintained by: Pennsylvania State Police - Gibson Barracks or PennDOT District 4 or local fire departments.

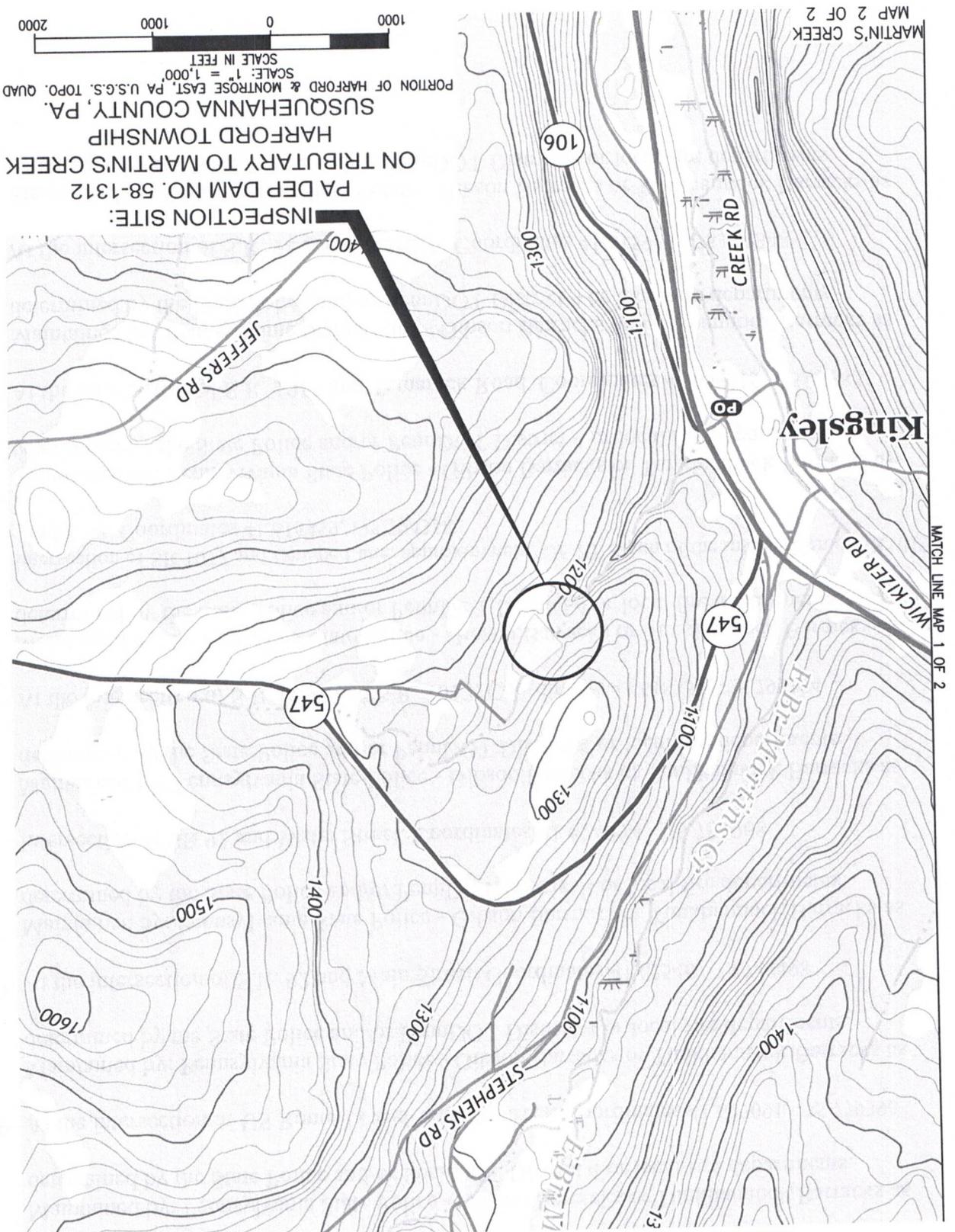
TCP - 8            At the intersection of US Route 11 and Wright Road. Coordinates 41.719820, -75.767050

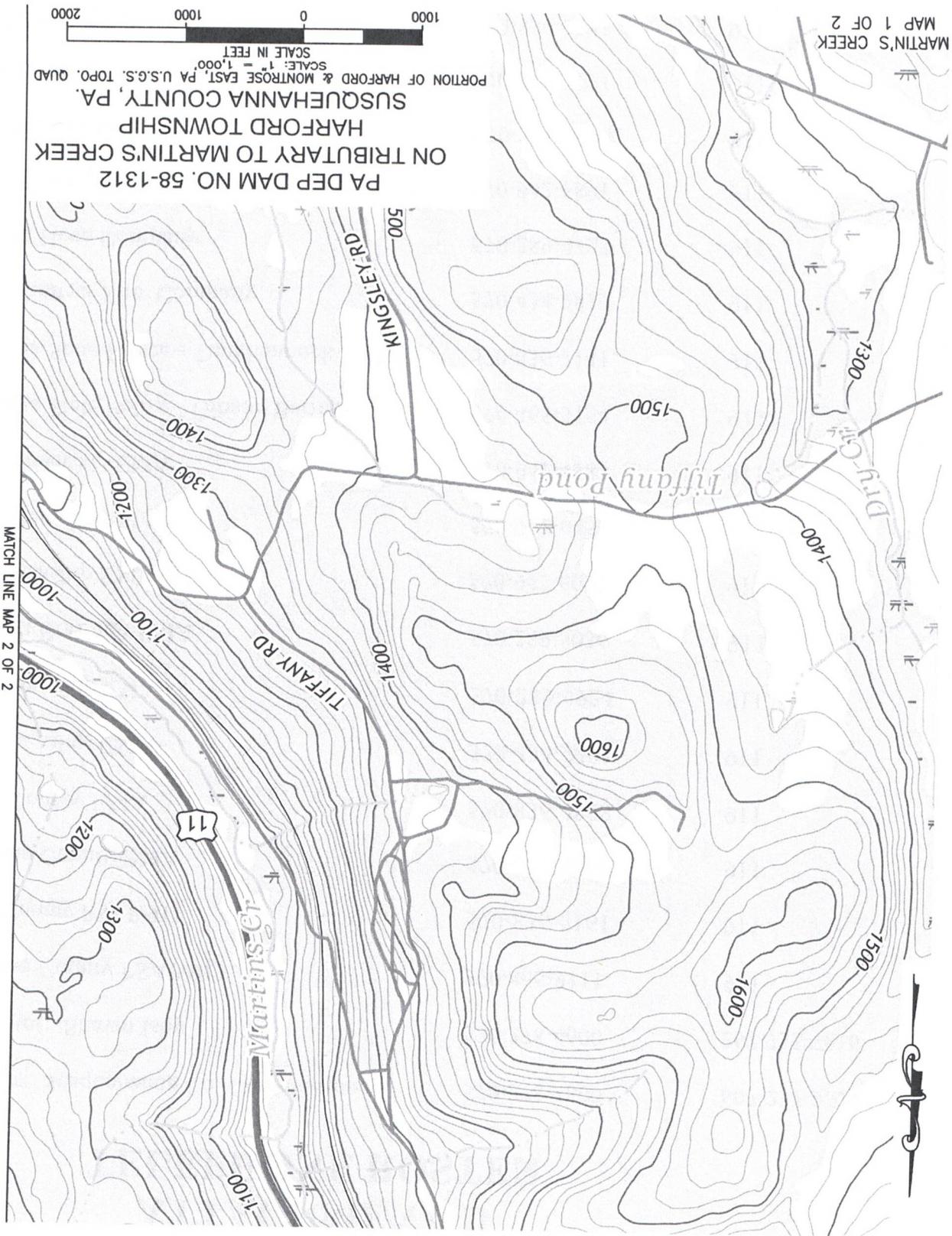
Maintained by: Pennsylvania State Police - Gibson Barracks or PennDOT District 4 or local fire departments.

- TCP-9 At the intersection of S.R. 167 and Center Street. Coordinates 41.70589, -75.766304  
 Maintained by: Pennsylvania State Police - Gibson Barracks or PennDOT District 4 or local fire departments.
- TCP - 10 On S.R.167 approximately 500 feet north of its intersection with S.R. 2096 and Greenwood Street. Coordinates 41.706305, -75.768823  
 Maintained by: Pennsylvania State Police- Gibson Barracks or PennDOT District 4 or local fire departments.
- TCP - 11 On S.R. 2096 approximately 350 feet south of its intersection with S.R. 167 and Greenwood Street. Coordinates 41.704464, -75.767983  
 Maintained by: Pennsylvania State Police- Gibson Barracks or PennDOT District 4 or local fire departments.
- TCP – 12 At the intersection of US Route 11 and Center Street. Coordinates 41.701758, -75.764778  
 Maintained by: Pennsylvania State Police - Gibson Barracks or PennDOT District 4 or local fire departments.
- TCP – 13 At the intersection of S.R. 2002 and Sheepy Hollow Road. Coordinates 41.693406, -75.776033  
 Maintained by: Pennsylvania State Police-Gibson Barracks or PennDOT District 4 or local fire departments.
- TPC – 14 At the intersection of Old RT 11 and Glenwood Switch Road. Coordinates 41.671541, -75.780095  
 Maintained by: Pennsylvania State Police - Gibson Barracks or PennDOT District 4 or local fire departments.
- TCP – 15 1200 ft North of Creek Road and Bailey Road intersection. Coordinates 41.67500, -75.78190  
 Maintained by: Pennsylvania State Police - Gibson Barracks or PennDOT District 4 or local fire departments.
- TPC – 16 At the Intersection of Old Rt 11 and SR 11. Coordinates 41.655716, -75.783186  
 Maintained by: Pennsylvania State Police - Gibson Barracks or Tunkhannock Barracks as determined by the State Police and/or PennDOT District 4 or local fire departments.
- TCP – 17 At the Intersection of SR 1021(Brecht Hill Road) and Creek Road. Coordinates 41.633100 -75.783502  
 Maintained by: Pennsylvania State Police - Gibson Barracks or Tunkhannock Barracks as determined by the State Police and/or PennDOT District 4 or local fire departments.

- TCP- 18 At the intersection of Railroad Street and Main Street. Coordinates 41.628292, -75.781175  
 Maintained by: Pennsylvania State Police - Gibson Barracks or Tunkhannock Barracks as determined by the State Police and/or PennDOT District 4 or local fire departments.
- TCP – 19 At the intersection of US Route 11 and Walnut Street. Coordinates 41.627091, -75.779396  
 Maintained by: Pennsylvania State Police - Gibson Barracks or Tunkhannock Barracks as determined by the State Police and/or PennDOT District 4 or local fire departments.
- TCP – 20 At the intersection of S.R. 92 and Main Street. Coordinates 41.62546, -75.780498  
 Maintained by: Pennsylvania State Police - Gibson Barracks or Tunkhannock Barracks as determined by the State Police and/or PennDOT District 4 or local fire departments.
- TCP- 21 Intersection of SR 92 and Water Street. Coordinates 41.624994, -75.781968  
 Maintained by: Pennsylvania State Police - Gibson Barracks or Tunkhannock Barracks as determined by the State Police and/or PennDOT District 4 or local fire departments.
- TCP- 22 At the intersection of S.R. 0092 and S.R. 1017. Coordinates 41.618351, -75.795194  
 Maintained by: Pennsylvania State Police - Gibson Barracks or Tunkhannock Barracks as determined by the State Police and/or PennDOT District 4 or local fire departments.
- TCP – 23 Intersection of SR 1017 and Lenape Lane, approximately 775 FT South of the intersection of SR1017 and SR 92. Coordinates 41.615459, -75.794358  
 Maintained by: Pennsylvania State Police - Gibson Barracks or Tunkhannock Barracks as determined by the State Police and/or PennDOT District 4 or local fire departments.
- TCP – 24 At the intersection of S.R. 1017 and Tamarack Road. Coordinates 41.606515, -75.798851  
 Maintained by: Pennsylvania State Police - Gibson Barracks or Tunkhannock Barracks as determined by the State Police and/or PennDOT District 4 or local fire departments.
- TCP – 25 At the intersection of S.R. 92 and S.R. 1015. Coordinates 41.615955, -75.807348  
 Maintained by: Pennsylvania State Police - Gibson Barracks or Tunkhannock Barracks as determined by the State Police and/or PennDOT District 4 or local fire departments.

**ATTACHMENT C - LOCATION MAP - 2 PAGES**





PA DEP DAM NO. 58-1312  
 ON TRIBUTARY TO MARTIN'S CREEK  
 HARFORD TOWNSHIP  
 SUSQUEHANNA COUNTY, PA.  
 PORTION OF HARFORD & MONTROSE EAST, PA U.S.G.S. TOPO. QUAD  
 SCALE: 1" = 1,000'  
 SCALE IN FEET

MARTIN'S CREEK  
 MAP 1 OF 2

MATCH LINE MAP 2 OF 2

# ATTACHMENT D TELEPHONE ROSTER

Dam Owner: Susquehanna Co. Commissioners	570-278-4600	607-237-9399
Dam Operator: Shawn Isby	570-278-4600	267-733-7016
Susquehanna County PSAP/911	570-465-9111	911
Wyoming County PSAP/911	570-836-6161	911
Susquehanna County EMA	570-278-4600	911
Wyoming County EMA	570-836-2828	911
Harford Township EMA	570-434-2401	911
Brooklyn Township EMA	570-289-9924	911
Hop Bottom Borough EMA	570-289-5036	911
Lathrop Township EMA	570-942-6097	911
Nicholson Borough EMA	570-942-6451	911
Nicholson Township EMA	570-942-4583	911
Pennsylvania State Police - Gibson Barracks	570-465-3154	911
Pennsylvania State Police - Tunkhannock Barracks	570-836-2141	911
Harford Volunteer Fire Company	570-434-2839	911
Hop Bottom Hose Company	570-289-4427	911
Nicholson Fire Company #1	570-942-6891	911
Montrose Minute Men	570-278-9188	911
PennDOT District 4-5	570-278-1171	911
PennDOT District 4-7	570-836-3141	911
American Red Cross	570-278-1427	911
Factoryville EMS	570-945-5769	911

DEP -	Northeast Region	570-826-2511	570-826-2511
DEP -	Division of Dam Safety	717-787-8568	717-787-4343 800-541-2050
PEMA		717-651-2001 800-424-7362	717-651-2001 800-424-7362

# **ATTACHMENT E**

## **MEDIA ANNOUNCEMENT**

### **EARLY WARNING MESSAGE:**

The Susquehanna and Wyoming County Emergency Management Agencies advise that due to conditions at Martin's Creek Dam in Harford Township, the public should avoid the area downstream of the dam along an unnamed tributary to Martin's Creek until its confluence with Martin's Creek, the area along Martin's Creek after its confluence with the unnamed tributary to Martin's Creek for approximately 10.57 miles until its confluence with Tunkhannock Creek, and the area along Tunkhannock Creek after its confluence with Martin's Creek for approximately 2.10 miles downstream. The public should also avoid the area upstream of the confluence of the unnamed tributary to Martin's Creek and Martin's Creek for approximately 0.80 miles along Martin's Creek. Stay tuned for further information.

**\*\*\*REPEAT PERIODICALLY\*\*\***

### **WARNING AND EVACUATION MESSAGE:**

The Susquehanna and Wyoming County Emergency Management Agencies are advising all residents living downstream of Martin's Creek Dam in Harford Township, Brooklyn Township, Hop Bottom Borough, Lathrop Township, Nicholson Borough, and Nicholson Township to evacuate the area immediately.

Evacuate the area downstream of the dam along an unnamed tributary to Martin's Creek until its confluence with Martin's Creek, the area along Martin's Creek after its confluence with the unnamed tributary to Martin's Creek for approximately 10.57 miles until its confluence with Tunkhannock Creek, and the area along Tunkhannock Creek after its confluence with Martin's Creek for approximately 2.10 miles downstream. Also evacuate the area upstream of the confluence of the unnamed tributary to Martin's Creek and Martin's Creek for approximately 0.80 miles along Martin's Creek. If you require shelter during this emergency, you should report to Mountain View School District on State Route 0106 in Kingsley.

**\*\*\*REPEAT PERIODICALLY\*\*\***

### **INCIDENT RESOLVED - SAFE TO RETURN:**

The Susquehanna and Wyoming County Emergency Management Agencies are advising residents of the area downstream of Martin's Creek Dam in Harford Township, Brooklyn Township, Hop Bottom Borough, Lathrop Township, Nicholson Borough, and Nicholson Township that the problem at the dam has been resolved and that residents may return to their homes.

**\*\*\*REPEAT PERIODICALLY\*\*\***

NOTE: The above messages should be modified as necessary to fit the situation.