



May 17, 2018

Khaled R. Hassan, P.E.
Pennoni Associates, Inc.
3100 Horizon Drive, Suite 200
King of Prussia, PA 19406

Re: DEP File No. D46-261

Dear Mr. Hassan:

The Emergency Action Plan (EAP) for the Saw Mill Run Dam dated March 29, 2018, was submitted to our office with your March 29, 2018 transmittal letter. A review by the Department and the Pennsylvania Emergency Management Agency finds the EAP to be acceptable. The plan is approved for distribution and implementation.

Enclosed is an executed copy of the "PEMA and DEP Acknowledgements" page for your use. Copies of the signed "Promulgation and Concurrence" and "PEMA and DEP Acknowledgements" pages must be attached to the EAP distributed by Pennoni Associates, Inc. (Pennoni) or the Municipality of Norristown (Municipality). The original signature pages will be maintained in the Department's file. Every emergency response agency identified as having a responsibility in Sections IV.D. through IV.I. should receive a copy of the EAP. We have distributed an approved copy of this EAP to the Department's Southeast Regional Office in Norristown, PA; the National Weather Service in Mt. Holly, NJ; the Eastern Area Office of the Pennsylvania Emergency Management Agency; the Montgomery County Emergency Management Agency and the Montgomery County PSAP/9-1-1. **We request Pennoni or the Municipality provide this office a statement certifying that the EAP has been distributed to the appropriate emergency response agencies within 60 days of the date of this letter.**

Legislative amendments to the Dam Safety and Encroachments Act imposed additional requirements upon the owners and operators of dams located in the Commonwealth. The Act of May 16, 1985, P.L. 32, No. 1985-15, amended Section 13 of the Dam Safety and Encroachments Act (32 P.S. 693.13) to add the following new subsection (b):

"(b) In addition to the duties of subsection (a), the owner of any high hazard dam which has been classified as such by the Department of Environmental Protection shall post notices in public places in any area which might be affected by the failure of the dam."

The Act defines "high hazard dam" as "any dam so located to endanger populated areas downstream by its failure." This EAP was developed because the consequences of the downstream flooding from the sudden failure of Saw Mill Run Dam could result in the loss of life, appreciable damage to public or private property, or public inconvenience as defined by the

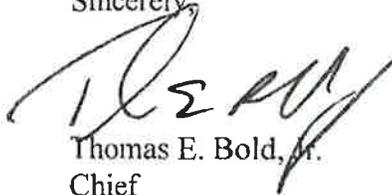
Act. Therefore, under the terms of the Act, the Municipality is required to comply with the requirements for posting notices in potentially impacted downstream areas.

The NOTICE form included in the EAP should be used in posting public notices. In order to comply with the notice requirement, such notices must be posted in the public places listed on page 7 of the approved EAP. **We request Pennoni or the Municipality provide this office a statement certifying that this requirement has been met and a list of the public posting places within 60 days of the date of this letter.**

Thank you for your cooperation in the development of this EAP. The Municipality's proper operation and maintenance of Saw Mill Run Dam in accordance with this Department's regulations and our guidance will minimize future problems. However, should severe weather conditions occur or if a sudden problem develops at the dam, the lives of those inhabitants downstream will depend on the Municipality's prompt implementation of this EAP.

If you have any questions regarding this letter, or at any time need assistance with this dam, contact this office. We will be pleased to assist you.

Sincerely,



Thomas E. Bold, Jr.
Chief

Preparedness, Enforcement & Security Section
Division of Dam Safety

Enclosure: "PEMA and DEP Acknowledgements" page

cc: Crandall O. Jones, Administrator, Municipality of Norristown
Eastern Area Office, PEMA (w/ "PEMA and DEP Acknowledgements" page enclosed)
Mount Holly, NJ National Weather Service (w/ EAP enclosed)
Montgomery County EMA (w/ EAP enclosed)
Montgomery County PSAP/9-1-1 (w/ EAP enclosed)

EMERGENCY ACTION PLAN

SURVEILLANCE, WARNING AND EVACUATION PROCEDURES

**SAW MILL RUN DAM
DEP NUMBER D46-261**

**LOCATED ACROSS SAW MILL RUN
IN MUNICIPALITY (BOROUGH) OF NORRISTOWN, MONTGOMERY COUNTY**

LATITUDE 40° 07' 13" LONGITUDE 75° 19' 41"

**SIZE CATEGORY "B"
HAZARD POTENTIAL CATEGORY "1"**

**OPERATED BY: THOMAS N. ODENIGBO, PE, DIRECTOR OF
PUBLIC WORKS
MUNICIPALITY OF NORRISTOWN**
**ADDRESS: 235 EAST AIRY STREET
NORRISTOWN, PA 19401
TELEPHONE: BUSINESS: 610-270-0421
HOME: 937-604-9696
24-HOUR: 610-270-0977
E-MAIL: todenigbo@norristown.org**

**OWNED BY: CRANDALL O. JONES, ADMINISTRATOR
MUNICIPALITY OF NORRISTOWN**
**ADDRESS: 235 EAST AIRY STREET
NORRISTOWN, PA 19401
TELEPHONE: BUSINESS: 610-270-0421
HOME: 610-631-2130
24-HOUR: 610-270-0977
E-MAIL: cjones@norristown.org
WEB PAGE: www.norristown.org**

**DATE: MAY 30, 2007
REVISED: AUGUST 17, 2015
REVISED: MARCH 29, 2018**

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PROMULGATION AND CONCURRENCE

We, the undersigned, on date indicated, have reviewed the requested support activity in the Emergency Action Plan for the Saw Mill Run Dam. Our support action will be executed in accordance with existing recommended operating guidelines and existing municipal or county emergency operation plans.



DAM OWNER
Crandall O. Jones, Administrator
Municipality of Norristown

3/2/2018
DATE



DAM OPERATOR
Thomas N. Odenigbo, PE, CFM,
Director of Public Works
Municipality of Norristown

3/7/2018
DATE



COORDINATOR
Thomas Sullivan
Montgomery County EMA

3/19/2018
DATE

PEMA AND DEP ACKNOWLEDGEMENTS

The Pennsylvania Emergency Management Agency has reviewed the SAW MILL RUN DAM (D46-261) Emergency Action Plan for appropriate content.



Director, PEMA, East Area Office

May 7, 2018

DATE

The Department of Environmental Protection, Division of Dam Safety, has reviewed the SAW MILL RUN DAM (D46-261) Emergency Action Plan for appropriate content.



Chief, Division of Dam Safety

5/10/18

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 47-foot high, 1335-foot long earthen embankment recreation dam, maintaining a normal pool of 0 acre-feet of water with a maximum pool capacity of 740 acre-feet.
- B. The dam is located along 515 East Fornance Street, between Tremont Avenue and Green Valley Road, in the Municipality of Norristown. Refer to Attachment C. – *Location Map*.
- C. The inundation area resulting from a sudden dam failure is bordered on the entire southern side of the Municipality of Norristown from the dam location at 515 East Fornance Street. It continues down Saw Mill Run Creek and into the Schuylkill River. This area contains approximately 6,000 residents and workers, on an average day. Refer to Attachment A - *Inundation Map*.
- D. Within the inundation area are approximately 245 homes, 86 businesses, Norristown's Municipal Government complex and railroad lines operated by SEPTA, Norfolk Southern, and CSX. Refer to Attachment A - *Inundation Map*.

III. CONCEPT OF OPERATIONS

- A. SURVEILLANCE – NORMAL CONDITIONS - (DAM OWNER OR OPERATOR)
 - 1. The Municipality of Norristown and/or dam operator (Thomas Odenigbo, PE, Director of Public Works) 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. The Municipality of Norristown and/or dam operator (Thomas Odenigbo, PE, Director of Public Works) will commence surveillance of conditions at the dam site when:
 - a. Severe thunderstorms or 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 III.D.1.

C. EARLY WARNING NOTIFICATION

- 1. The Municipality of Norristown and/or dam operator (Thomas Odenigbo, PE, Director of Public Works) is responsible for determining the dam's threat potential. The following conditions constitute early warning notification to the Montgomery County Department of Public Safety MCDPS 911 and the Department of Environmental Protection's Southeast Regional Office 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 Montgomery County Department of Public Safety MCDPS 911 to the Montgomery County EMC, the PEMA - Commonwealth Watch and Warning Center 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. The Municipality of Norristown and/or dam operator (Thomas Odenigbo, PE, Director of Public Works) is responsible for determining the dam's threat potential. The following conditions constitute a dam emergency requiring warning and evacuation notification to the Montgomery County Department of Public Safety MCDPS 911.
 - a. The depth of flow in the emergency spillway has reached a depth of 6 feet. (Staff gage on the spillway might be needed), and
 - b. The water level in the impoundment area has reached the threshold level of 5.5 feet below the top the dam, or
 - c. 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 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 spillway.

- v. Any sloughing or sliding of the embankment's 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. If a discharge occurs 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 Montgomery County Department of Public Safety MCDPS 911, the PEMA - Commonwealth Watch and Warning Center 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 the Municipality of Norristown or dam operator (Thomas Odenigbo, PE, Director of Public Works) 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 NOTIFICATIONS

1. The Municipality of Norristown and/or dam operator (Thomas Odenigbo, PE, Director of Public Works) 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 15 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, the Municipality of Norristown and/or dam operator (Thomas Odenigbo, PE, Director of Public Works) shall notify the Montgomery County Department of Public Safety MCDPS 911.
3. Termination of notifications will be relayed from the Montgomery County Department of Public Safety MCDPS 911 to the Montgomery County EMC, the PEMA - Commonwealth Watch and Warning Center 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. The Municipality of Norristown and/or dam operator (Thomas Odenigbo, PE, Director of Public Works) 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 Montgomery County Department of Public Safety MCDPS 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, the Municipality of Norristown or dam operator (Thomas Odenigbo, PE, Director of Public Works) will initiate warning and evacuation notification to the Montgomery County Department of Public Safety MCDPS 911.

B. MONTGOMERY COUNTY DEPARTMENT OF PUBLIC SAFETY MCDPS 911

1. The Montgomery County Communications Center will notify:
 - a. Montgomery County OEP
 - b. PEMA - Commonwealth Watch and Warning Center
 - c. Norristown Police Department
 - d. Norristown Fire Department
 - e. PA State Police – Skippack Barracks
 - f. Plymouth Community Emergency Medical Services
 - g. Norristown Area School District
 - h. PEMA State Commonwealth Response Coordination Center

C. MONTGOMERY COUNTY OFFICE OF EMERGENCY PREPAREDNESS (OEP)

1. The Montgomery County EMA will notify:
 - a. Municipality of Norristown EMA
 - b. National Weather Service
 - c. Media – Early Warning and/or Warning and Evacuation (Activate EAS). Refer to Attachment E
 - d. Montgomery County EOC staff, as necessary
 - e. American Red Cross – Southeastern PA Chapter (when mass care or family assistance is required). Coordinate sheltering per ESF 6 of County EOP.
 - f. Montgomery County elected officials
 - g. Norristown Area School System
 - h. Pennsylvania Emergency Management Agency
 - i. PennDOT - District 6
 - j. Southeastern Pennsylvania Transportation Authority - SEPTA
 - k. Norfolk Southern Railroad
 - l. CSX Railroad
2. The Montgomery County EMA will ascertain and report to PEMA any unmet needs requirements.
3. The Montgomery County EMA will initiate Damage Assessment and Recovery procedures as the situation requires.

D. LOCAL MUNICIPAL EMAs

Municipality of Norristown EMA

1. 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 dam failure and indicated on the *Inundation Map*).
2. Notify municipal elected officials and municipal services (water, sewer, etc.).
3. Keep the County EMA apprised of the situation.
4. Coordinate the evacuation (where appropriate).
5. Provide damage reporting to the Montgomery County EMC.

E. FIRE DEPARTMENTS

NORRISTOWN FIRE DEPARTMENT

1. Provide citizen notification and route alerting to advise residents living within their jurisdiction (See *Inundation Map* - Attachment A).
2. Assist in evacuation.
3. Assist police and EMS, as requested.
4. Provide communications support if feasible and requested.

F. POLICE SERVICES

NORRISTOWN POLICE DEPARTMENT & PENNA. STATE POLICE

1. Dispatch radio vehicle to dam site in order to provide alternate communications link to MCDPS/911 - Norristown Police Department.
2. 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).
3. Prevent unauthorized entry and provide security of evacuated areas.
4. Provide assistance with route alerting, if requested.

G. EMERGENCY MEDICAL SERVICES (EMS)

PLYMOUTH TOWNSHIP EMERGENCY MEDICAL SERVICES (EMS)

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

H. AMERICAN RED CROSS or Volunteer Organization Active in Disasters (VOAD) - SOUTHEASTERN PA RED CROSS CHAPTER (If requested by Montgomery County OEP)

1. Identify and activate an appropriate shelter, as necessary.
2. Support and maintain operations of the reception center.
3. Maintain communications with County EMC, local EMA and reception center.

I. PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PennDOT)

1. 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. Municipality of Norristown Municipal Administrators Office
2. Montgomery County EMA
3. Municipality of Norristown Fire Chiefs Office
4. Montgomery County Norristown Public Library
5. Norristown Hose Fire Station
6. Montgomery Hose Fire Station
7. Fairmount Fire Station
8. Hancock Fire Station
9. United States Post Office
10. Morello's Towing
11. Five Saints Distillery
12. Montgomery county OIC
13. Regina Nursing Center
14. Hancock Elementary School
15. Lou's Sandwich Shop

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

1. Municipal Administrator's Office, located at 235 Airy Street, Norristown PA, 19401.
2. Montgomery County EMA located at 50 Eagleville Road, Eagleville PA, 19403.
3. Municipality of Norristown Fire Chiefs Office, located at 235 Airy Street, Norristown PA, 19401.
4. Montgomery County Public Library, located at 1001 Powell Street, Norristown, PA, 19401.
5. Norristown Hose Fire Station, located at 627 DeKalb Pike, Norristown, PA, 19401.
6. Montgomery Hose Fire Station, located at 201 West Freedley Street, Norristown, PA, 19401.
7. Fairmount Fire Station, located at 401 West Main Street, Norristown, PA 19401.
8. Hancock Fire Station, located at 820 West Airy Street, Norristown, PA 19401.
9. Morello's Towing, located at 401 East Wood Street, Norristown, PA 19401.
10. Five Saints Distillery, located at 129 East Main Street, Norristown, PA 19401.
11. Montgomery County OIC, located at 1101 Arch Street, Norristown, PA 19401.
12. Regina Nursing Home, located at 550 East Fornance Street, Norristown, PA 19401.
13. Hancock Elementary School, located at 1520 Arch Street, Norristown, PA

19401.

14. United States Post Office, located at 28 East Airy Street, Norristown, PA
19401.

15. Lou's Sandwich Shop, located at 414 East Main Street, Norristown, PA
19401.

- 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 1, 2, and 3 Dams. Prepared by the Department of Environmental Protection, Water Management, Bureau of Waterways Engineering and Wetlands, 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 and Wetlands, Division of Dam Safety, February 2009.
3. Montgomery 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. **COMMONWEALTH RESPONSE COORDINATION CENTER (CRCC)** - Serves as the Commonwealth's primary coordination point for response and recovery operations during natural or human-caused disasters and other emergencies. When activated, state agencies, volunteer organizations, and other stakeholders send representatives to the CRCC where they work to coordinate state agency response and recovery efforts to support affected counties and local jurisdictions.

- F. **COMMONWEALTH WATCH AND WARNING CENTER (CWWC)** - Serves as the 24/7 monitoring and emergency alerting hub for all-hazards incidents and events throughout the Commonwealth. The CWWC works with county Public Safety Answering Points (PSAP's), Emergency Management agencies, state agencies and other stakeholders to maintain Situational Awareness (SA) and provide a Common Operating Picture (COP) for agencies throughout the state.
- G. **CONDUIT** - A pipe used to convey water through or around or under a dam.
- H. **CONTROL TOWER** - A structure in the dam or reservoir used to control withdraw of water from the reservoir through pipes or culverts.
- I. **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.
- J. **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.
- K. **DAM** - A barrier built across a watercourse for impounding or diverting the flow of water.
- L. **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.
- M. **EARTH DAM (EARTHFILL DAM)** - An embankment dam in which more than 50% of the total volume is formed of compacted fine-grained earth.
- N. **EMBANKMENT** - Fill material, usually earth or rock, placed with sloping sides.
- O. **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.
- P. **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.
- Q. **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.

- R. **FACE** - With reference to a structure, the external surface that limits the structure, e.g., the face of a wall or dam.
- S. **FAILURE** - An incident resulting in the uncontrolled release of water from an operating dam. See "Dam Failure".
- T. **FOUNDATION OF DAM** - The natural material on which the dam structure is placed.
- U. **GROIN** - That area along the contact (or intersection) of the face of a dam with the abutment.
- V. **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.
- W. **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.
- X. **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.
- Y. **NOTIFICATION** - To promptly inform appropriate individuals or emergency agency about an emergency condition so they can initiate appropriate actions.
- Z. **NORMAL WATER LEVEL (NORMAL WATER POOL)** - For reservoir with a fixed overflow spillway crest, it is the lowest level of that crest.
- AA. **OPERATOR** - The person or position in a company or organization, who is responsible for a dam's operation and surveillance.
- BB. **OUTLET** - A constructed opening through which water can be safely discharged for a particular purpose from a reservoir.
- CC. **OWNER** - Any person, authority or agency that manages a dam or reservoir.
- DD. **PSAP** - Public Safety Answering Point - an agency in the United States, typically county or city controlled, responsible for answering 9-1-1 calls for emergency assistance from police, fire, and ambulance services.
- EE. **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.
- FF. **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.

- GG. **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.
- HH. **SPILLWAY CHANNEL** - A channel conveying water from the spillway crest to the river downstream.
- II. **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.
- JJ. **TOP OF DAM** - The elevation of the uppermost surface of a dam, usually a road or walkway, excluding any parapet wall, railings, etc.
- KK. **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.
- LL. **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

The dam owner (Norristown) will advise and cooperate with the Montgomery County OEP of any exercises scheduled, and coordinate with the Montgomery County OEP 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 Montgomery County OEP 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 Montgomery County OEP offices.
 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.

- C. 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



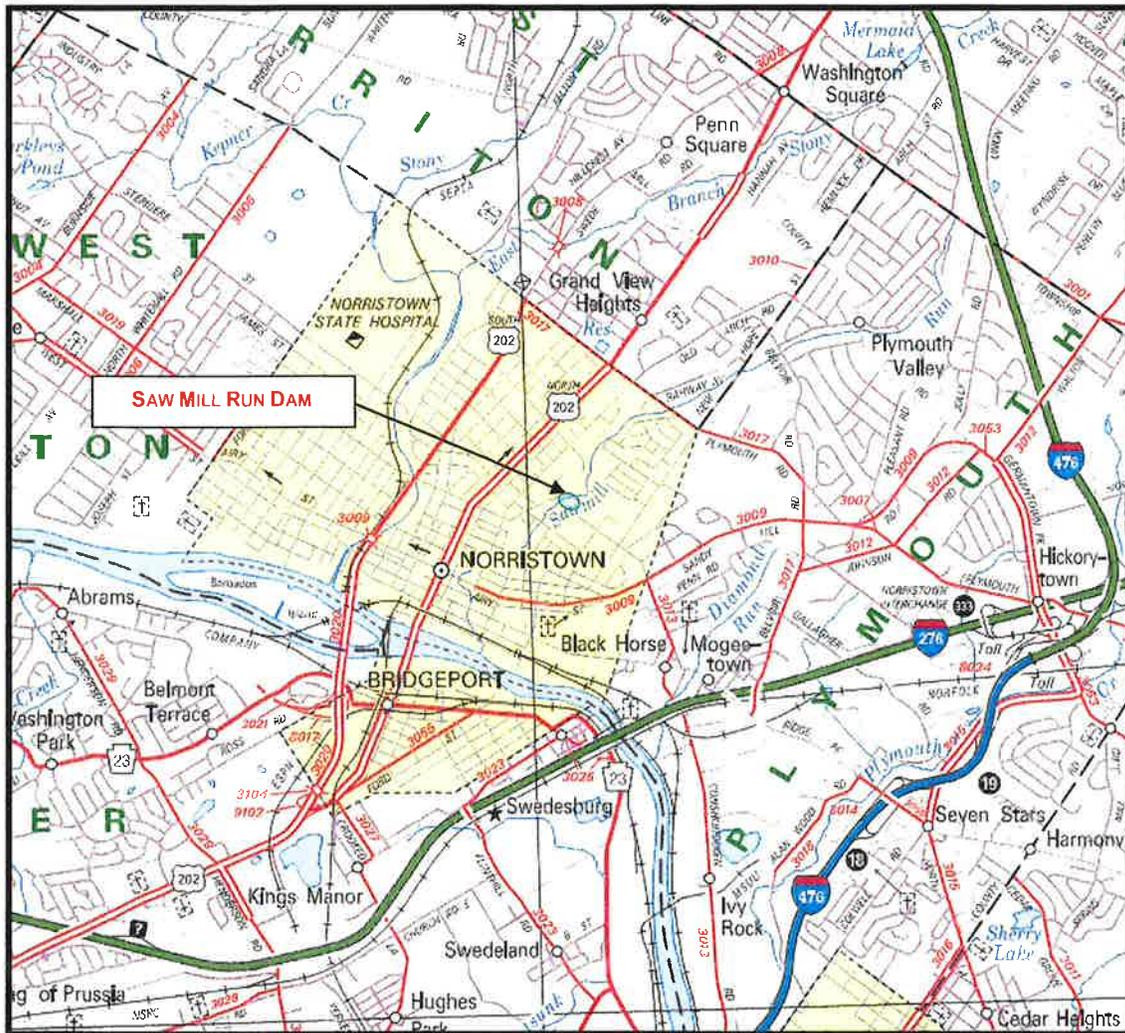
ATTACHMENT B

TRAFFIC CONTROL POINTS

No.	Intersections	Controlling Police
1	DeKalb & Lafayette	Norristown Police Force
2	Main & DeKalb	Norristown Police Force
3	Marshall & DeKalb	Norristown Police Force
4	Chestnut & DeKalb	Norristown Police Force
5	Jacoby & DeKalb	Norristown Police Force
6	Elm & DeKalb	Norristown Police Force
7	Spruce & DeKalb	Norristown Police Force
8	Basin & DeKalb	Norristown Police Force
9	Wood & DeKalb	Norristown Police Force
10	Fomance & DeKalb	Norristown Police Force
11	Arch & Fomance	Norristown Police Force
12	New Hope & Fomance	Norristown Police Force
13	Cedar & Tremont	Norristown Police Force
14	Marshall & New Hope	Norristown Police Force
15	Marshall & Tremont	Norristown Police Force
16	Moore & Tremont	Norristown Police Force
17	Airy & Tremont	Norristown Police Force
18	Marshall/Airy/Sandy	Norristown Police Force
19	Airy & High	Norristown Police Force
20	Main & Ford	Norristown Police Force

ATTACHMENT C – LOCATION MAP

DIRECTIONS: The Saw Mill Run Dam is located in Norristown, Montgomery County, PA (situated about 5 miles East of Plymouth Meeting, PA and about 6 miles Northeast of King of Prussia, PA).



- From Interstate 476 (heading North): If heading North on Interstate 476 take exit 18B for SR 3056 toward Norristown. Turn right onto SR 3056 W and travel 1.5 miles. Turn right on Fairfield Road, travel 0.5 miles. Changing to E. Farnance Street, travel 0.5 miles. The dam will be on the right.
- From Germantown Pike (heading Southeast): If heading southeast on Germantown Pike turn right towards Route 202/Dekalb Pike, travel 1.1 miles and turn left onto E Johnson Highway and travel 0.1 mile. Turn right onto Arch Street and travel 0.7 miles. Turn left onto E. Farnance Street. The dam will be 0.20 miles on the left.

ATTACHMENT D

TELEPHONE ROSTER

NAME OF ORGANIZATION	EMERGENCY TELEPHONE NUMBER	NON-EMERGENCY TELEPHONE NUMBER
DAM OWNER: MUNICIPALITY OF NORRISTOWN CRANDALL O. JONES, MUNICIPAL ADMINISTRATOR	610-504-1908	610-270-0421
DAM OPERATOR: MUNICIPALITY OF NORRISTOWN THOMAS O. JONES, DIRECTOR OF PUBLIC WORKS	610-270-0977	610-270-0421
MONTGOMERY COUNTY COMMUNICATIONS CENTER	911	610-539-8770
MONTGOMERY COUNTY EMERGENCY MANAGEMENT COORDINATOR, THOMAS SULLIVAN	610-631-6530	610-631-6500
NORRISTOWN POLICE DEPARTMENT CHIEF MARK TALBOT	911	610-270-0977
NORRISTOWN FIRE DEPARTMENT CHIEF THOMAS O'DONNELL	911	610-292-8281
MUNICIPALITY OF NORRISTOWN EMERGENCY MANAGEMENT COORDINATOR - CHIEF THOMAS O'DONNELL	911	610-292-8281
PENNSYLVANIA STATE POLICE – TROOP K COMMANDING OFFICER – CAPTAIN BRUCE WILLIAMS	911	215-452-5216
PENNSYLVANIA EMERGENCY MANAGEMENT AGENCY – EASTERN AREA OFFICE	717-651-2001 800-424-7362	610-562-3003
PA DEP SOUTHEAST REGIONAL OFFICE	484-250-5900	484-250-5900
PA DEP DIVISION OF DAM SAFETY	717-787-4343 800-541-2050 717-805-3057	717-787-8568
PLYMOUTH COMMUNITY AMBULANCE ASSOCIATION CHIEF OF OPERATIONS – THOMAS TROJANSKY	911	610-277-2776
SOUTHEASTERN PENNSYLVANIA TRANSIT AUTHORITY (SEPTA)	215-580-8111	215-580-4487
CSX TRANSPORTATION	800-232-0144	
NORRISTOWN AREA SCHOOL DISTRICT ROBERT MALKOWSKI, DIRECTOR OF OPERATIONS	610-960-8572	610-630-5021
RED CROSS SOUTHEASTERN PA CHAPTER	215-299-4000	215-299-4000

PRECAUTIONARY NOTIFICATIONS (JUST OUTSIDE INUNDATION AREA)

REGINA NURSING CENTER 610-272-5600
550 E. FORNANCE STREET
NORRISTOWN, PA 19401

HANCOCK ELEMENTARY SCHOOL 610-275-5522
1520 ARCH STREET
NORRISTOWN, PA 19401

GOD'S CHOSEN CHILDREN DAYCARE 610-220-3715
237 E. CHESTNUT STREET
NORRISTOWN, PA 19401

CREATIVE CARE CHILD CARE 610-278-0423
370 E. AIRY STREET
NORRISTOWN, PA 19401

ATTACHMENT E

MEDIA ANNOUNCEMENT

EARLY WARNING MESSAGE:

The Montgomery County Emergency Management Agency advises that due to conditions at the Saw Mill Run Dam in the Municipality of Norristown, the public should avoid the area downstream of the dam between Violet Street and Green Street from Fornance Street to the Schuylkill River. Stay tuned for further information.

REPEAT PERIODICALLY

WARNING AND EVACUATION MESSAGE:

The Montgomery County Emergency Management Agency is advising all residents living downstream of the Saw Mill Run Dam in Municipality of Norristown to evacuate the area immediately. Evacuate the area Violet Street and Green Street from Fornance Street to the Schuylkill River. If you require shelter during this emergency you should report to (location of reception/mass care center to be determined by county EMC, American Red Cross or other VOAD at time of emergency).

REPEAT PERIODICALLY

INCIDENT RESOLVED - SAFE TO RETURN:

The Montgomery County Emergency Management Agency is advising residents of the area downstream of the Saw Mill Run Dam in Municipality of Norristown 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.

ATTACHMENT F

NOTICE

SAW MILL RUN DAM HAS BEEN CATEGORIZED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, DIVISION OF DAM SAFETY, AS A HIGH HAZARD DAM; THIS IS A DAM SO LOCATED AS TO ENDANGER POPULATED AREAS DOWNSTREAM BY ITS FAILURE.

AN EMERGENCY ACTION PLAN HAS BEEN DEVELOPED FOR

SAW MILL RUN DAM

A COPY OF THIS PLAN, INCLUDING AN INUNDATION MAP NOTING AREAS IN

MUNICIPALITY OF NORRISTOWN

SUBJECT TO FLOODING IN THE EVENT OF FAILURE, IS AVAILABLE FOR PUBLIC INSPECTION AT THE FOLLOWING LOCATIONS:

MUNICIPALITY OF NORRISTOWN
ADMINISTRATIVE OFFICE
235 EAST AIRY STREET
NORRISTOWN, PA 19401
(DAM OWNER & ADDRESS)

MUNICIPALITY OF NORRISTOWN
FIRE CHIEF'S OFFICE
235 EAST AIRY STREET
NORRISTOWN, PA 19401
(LOCAL EMA OFFICE & ADDRESS)

MONTGOMERY COUNTY OFFICE
OF EMERGENCY PREPAREDNESS
50 EAGLEVILLE ROAD
EAGLEVILLE, PA 19403
(COUNTY EMA OFFICE & ADDRESS)

MONTGOMERY COUNTY/NORRISTOWN
PUBLIC LIBRARY
1001 POWELL STREET
NORRISTOWN, PA 19401
(LOCAL EMA OFFICE & ADDRESS)

NORRISTOWN HOSE FIRE STATION
627 DEKALB ST.
NORRISTOWN, PA 19401

MONTGOMERY HOSE FIRE STATION
201 WEST FREEDLEY STREET,
NORRISTOWN, PA 19401

FAIRMOUNT FIRE STATION
401 WETS MAIN STREET
NORRISTOWN, PA 19401

HANCOCK FIRE STATION
820 WEST AIRY STREET
NORRISTOWN, PA 19401

This NOTICE is posted per Department of Environmental Protection's Chapter 105 Dam Safety and Waterway Management §105.134(c).