EMERGENCY ACTION PLAN

SURVEILLANCE, WARNING AND EVACUATION PROCEDURES

for

BATHGATE DETENTION POND DAM
DEP NUMBER D14-122

LOCATED ACROSS A TRIBUTARY TO SLAB CABIN RUN IN COLLEGE TOWNSHIP, CENTRE COUNTY

LATITUDE 40° 48' 46" LONGITUDE 77° 50' 37"

SIZE CATEGORY "C"
HAZARD POTENTIAL CATEGORY "1"

OPERATED BY:	**Joseph Swanderski, Supervisor** **The Pennsylvania State University** **Office of the Physical Plant, Utilities** **PSU Physical Plant, WWTP Park Ave** **University Park, PA 16802**	
TELEPHONE:	**24 Hour:** **Business:** **Mobile:**	**(814) 933-9203** **(814) 865-8710** **(814) 404-8690**
OWNED BY:	**The Pennsylvania State University** **Office of the Physical Plant** **Andrew D. Gutberlet** **Manager of Engineering Services**	
ADDRESS:	**Physical Plant Building** **University Park, PA 16802**	
TELEPHONE:	**24 Hour:** **Business:** **Web Page:**	**(814) 865-4731** **(814) 865-0545** **www.opp.psu.edu**

DATE:	**December 2010**
REVISED/UPDATED:	**April 2011**
REVISED/UPDATED:	**April 2018**

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ATTACHMENTS

PROMULGATION AND CONCURRENCE

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

4/16/18

DAM OWNER - PENNSYLVANIA STATE UNIVERSITY,
OFFICE OF PHYSICAL PLANT
ANDREW D. GUTBERLET, MANAGER OF ENGINEERING SERVICES

DATE

4-17-18

DAM OPERATOR - PENNSYLVANIA STATE UNIVERSITY
OFFICE OF PHYSICAL PLANT, UTILITIES
JOSEPH SWANDERSKI, SUPERVISOR

DATE

4-30-18

CENTRE COUNTY EMA
JEFFREY A. WHARRAN, DIRECTOR

DATE

5/03/18

CENTRE REGION EMA
SHAWN R. KAUFFMAN, COORDINATOR

DATE

PEMA AND DEP ACKNOWLEDGEMENTS

The Pennsylvania Emergency Management Agency, has reviewed the BATHGATE DETENTION POND DAM (14-122) Emergency Action Plan for appropriate content.

Director, PEMA Central Area Office — **DATE** 7/10/18

The Department of Environmental Protection, Bureau of Waterways Engineering, Division of Dam Safety has reviewed the BATHGATE DETENTION POND DAM (D14-122) Emergency Action Plan for appropriate content.

Chief, Division of Dam Safety — **DATE** 7/16/18

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 20.5-foot high, 630- foot long impervious-fill earthen embankment dam, maintaining a normal pool of 1.1acre-feet of water with a maximum pool capacity of 77.0 acre-feet.

B. The dam is situated within College Township, Centre County, approximately 2,700 feet directly north of the northern-most municipal boundary line of State College Borough measured from the point where said boundary line crosses SR 26 (E. College Avenue). The dam is located along an unnamed tributary to Slab Cabin Run, which is tributary to Spring Creek, 0.6 miles Southeast of Beaver Stadium between Porter Road and Puddintown Road (SR 3012). Refer to the Location Map at ***Attachment C***.

C. The inundation area resulting from a sudden dam failure is bordered on the North by the John Bathgate farmland, on the South by nine single family residential properties and on the East by a dairy products distribution center, a residential property, Puddentown Road and the Millbrook Marsh Nature Center and Spring Creek Education Building site. Refer to the Inundation Map at ***Attachment A***.

D. Within the inundation area are approximately 10 single family residential properties with an estimated population of 23 persons, the Schneider Valley Dairy Farms distribution facility which has a typical occupancy of 1 to 5 employees, and the Bathgate Farm barn building. The Millbrook Marsh Nature Center and Spring Creek Education Building are situated immediately outside the eastern end of the identified inundation area. However, one of the access drives into the site enters Puddintown Road at the stretch of roadway that borders the western end of the inundation area and both access drives are situated between Traffic Control Points 1 and 3. Thus, evacuation of the Millbrook Marsh Nature Center will also be necessary during an evacuation event. The Center employs a staff of 2 and may, at times, be occupied by 100 or more visitors and temporary staff depending on the season and events being held. Refer to the Inundation Map at ***Attachment A***.

III. CONCEPT OF OPERATIONS

A. SURVEILLANCE – NORMAL CONDITIONS - (DAM OPERATOR)

1. The Pennsylvania State University Office of Physical Plant's Dam Operator, or designated representatives, 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 Pennsylvania State University Office of Physical Plant's Dam Operator, or designated representatives, 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 III.D.1.

C. EARLY WARNING NOTIFICATION

1. The Pennsylvania State University Office of Physical Plant's Dam Operator is responsible for determining the dam's threat potential. The following conditions constitute a dam early warning notification to the Centre County 911/Emergency Communications and require 24-hour around-the-clock surveillance.

    a. The water level in the impoundment area has reached the threshold level of 6.5 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 Centre County 911/Emergency Communications to the Centre County EMA, the PEMA - Commonwealth Watch and Warning Center (PEMA CWWC) 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 Pennsylvania State University Office of Physical Plant's Dam Operator is responsible for determining the dam's threat potential. The following conditions constitute a dam emergency requiring warning and evacuation notification to the Centre County 911/Emergency Communications.

a. The depth of flow in the emergency spillway has reached a depth of 2 feet, and
b. The water level in the impoundment area has reached the threshold level of 4.9 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 concrete outlet riser, outlet culvert or emergency spillway is damaged, or clogged with debris or ice, which is resulting in a rapid rise in the lake or pond level.
   iii. The dam's outlet culvert or emergency spillway is experiencing heavy flows which are causing severe erosion to the the dam embankment or emergency spillway.
   iv. Any structural movement or failure of the dam's concrete outlet riser, outlet culvert, emergency spillway or emergency spillway abutment walls.
   v. Any sloughing or sliding of the embankment upstream or downstream slope. Also, earth slides in the emergency spillway channel, either upstream or downstream of the dam's crest, which could impede the flow in the emergency 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 Centre County 911/Emergency Communications to the Centre County EMA, the PEMA CWWC and all applicable emergency responders and designated government officials and agencies.

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 Pennsylvania State University Office of Physical Plant's Dam Operator, or 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 NOTIFICATIONS

1. The Pennsylvania State University Office of Physical Plant's Dam Operator 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 7 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 Pennsylvania State University Office of Physical Plant's Dam Operator shall notify the Centre County 911/Emergency Communications.

3. Termination of notifications will be relayed from the Centre County 911/Emergency Communications to the Centre County EMA, the PEMA CWWC 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 OPERATOR (DAM SITE EMERGENCY)

1. The Pennsylvania State University Office of Physical Plant's Dam Operator will provide for 24-hour on-site dam surveillance and monitoring as required in Section III.C.1. and will initiate early warning notification to the Centre County 911/Emergency Communications.

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 Pennsylvania State University Office of Physical Plant's Dam Operator will initiate warning and evacuation notification to the Centre County 911/Emergency Communications.

B. CENTRE COUNTY 911/EMERGENCY COMMUNICATIONS

1. The Centre County 911/Emergency Communications will notify:

   a. Centre County EMA
   b. PEMA CWWC
   c. Penn State Emergency Management Office
   c. State College Police Department
   d. University Police Services
   e. Alpha Fire Department
   f. Centre LifeLink EMS
   g. Pennsylvania State Police

C. CENTRE COUNTY EMA

1. The Centre County EMA will contact the following personnel and agencies:

   a. National Weather Service
   b. Centre Region EMA
   c. Media – Advisory and/or Warning (Activate EAS). Refer to Attachment E.
   d. American Red Cross – Centre County Chapter (when mass care or family assistance is required). Coordinate sheltering per ESF 6 of County EOP.
   e. State College Area School District
   f. Pennsylvania Emergency Management Agency
   g. Centre County EOC staff, as necessary
   h. Centre County elected officials
   i. PennDOT Maintenance District 2-1

2. The Centre County EMA will ascertain and report to PEMA any unmet needs requirements.

3. The Centre County EMA will initiate Damage Assessment and Recovery procedures as the situation requires.

D. LOCAL MUNICIPAL EMAs

CENTRE REGION 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 Centre County EMA.

E. FIRE DEPARTMENTS

ALPHA FIRE COMPANY

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

1. STATE COLLEGE POLICE DEPARTMENT

   a. Dispatch radio vehicle to dam site in order to provide alternate communications link to PSAP/911
   b. Assist evacuation traffic flow
   c. Prevent unauthorized entry and provide security of evacuated areas.
   d. Provide assistance with route alerting, if requested

2. UNIVERSITY POLICE SERVICES

   a. Establish traffic control points (TCP) at pre-designated locations (See Inundation Map – Attachment A and Traffic Control Points – Attachment B)
   b. Assist evacuation traffic flow
   c. Prevent unauthorized entry and provide security of evacuated areas.
   d. Provide assistance with route alerting, if requested

3. PENNSYLVANIA STATE POLICE

   a. Assist evacuation traffic flow
   b. Prevent unauthorized entry and provide security of evacuated areas.
   c. Provide assistance with route alerting, if requested.

G. EMERGENCY MEDICAL SERVICES (EMS)

CENTRE LIFELINK 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

CENTRE COMMUNITIES CHAPTER (If requested by Centre Region EMA)

1. Identify and activate an appropriate shelter, as necessary.
2. Support and maintain operations of the reception center.
3. Maintain communications with County EMA, 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. Centre Region Emergency Management Office
2. The Pennsylvania State University Office of Physical Plant
3. College Township Municipal Offices
4. Alpha Fire Company
5. Schneider Valley Dairy Farms
6. Millbrook Marsh Nature Center and Spring Creek Education Building

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. Centre County Emergency Management Office
   Willowbank County Office Building
   420 Holmes St., Room 134
   Bellefonte, PA 16823
2. College Township Municipal Offices
   1481 East College Avenue
   State College, PA 16801
3. Centre Region Emergency Management Office
   2643 Gateway Drive, Suite No. 2
   State College, PA 16801
4. The Pennsylvania State University Office of Physical Plant
   200 Physical Plant Building
   University Park, PA 16802

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 & 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. Centre 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 withdraw 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, drawoff 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 flood-waters 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 9-1-1 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

The dam owner will advise and cooperate with the Centre County EMA of any exercises scheduled, and coordinate with the Centre 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 Centre County EMA 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 Centre County EMA and the Centre Region EMA.
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 MAP

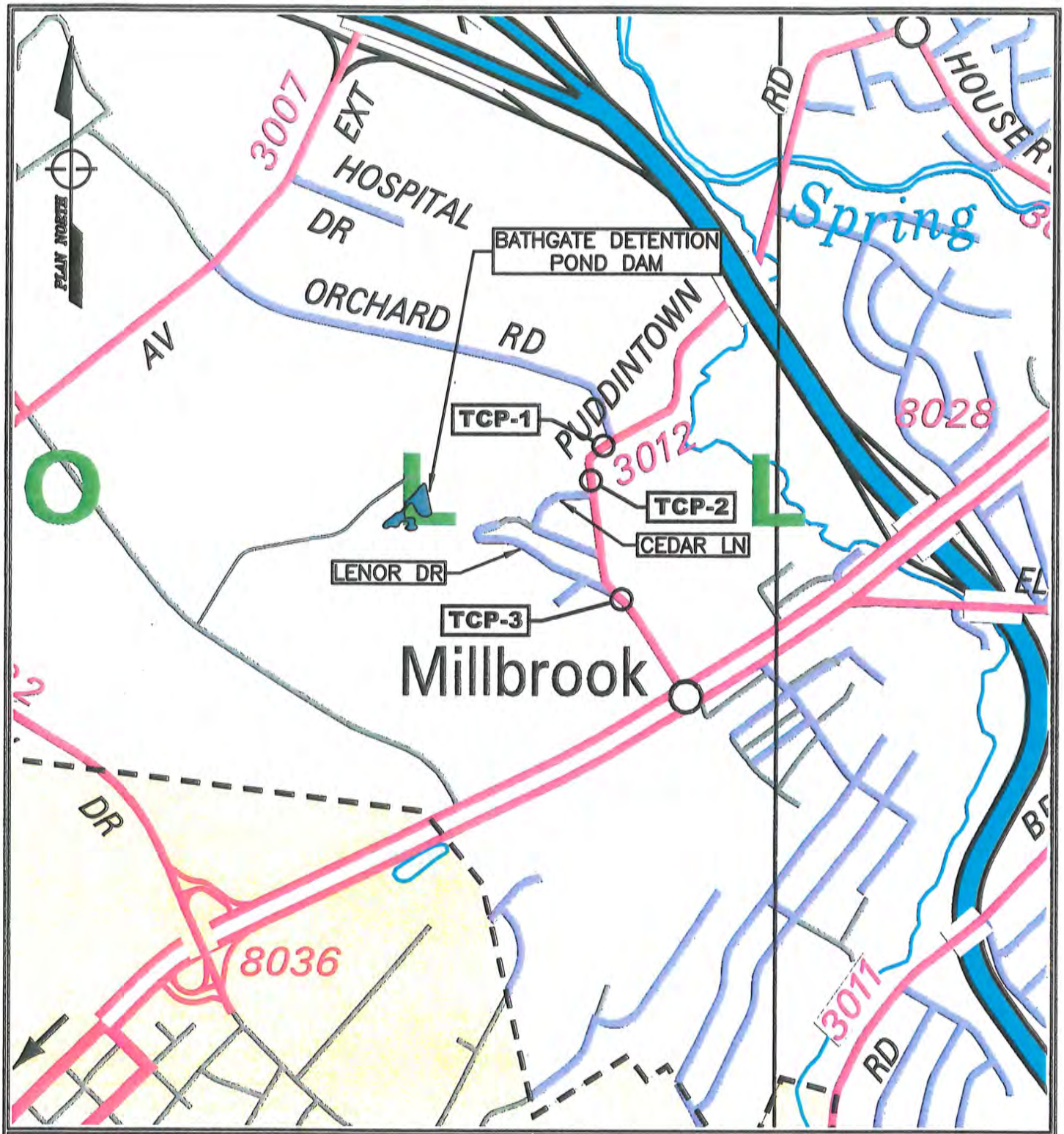
ATTACHMENT B
TRAFFIC CONTROL POINTS

TCP – 1 At Puddintown Road (S.R. 3012), immediately west of the intersection of Orchard Road and Puddintown Road (S.R. 3012).

TCP – 2 At Puddintown Road (S.R. 3012), immediately north of the intersection of Cedar Lane and Puddintown Road (S.R. 3012).

TCP – 3 At Puddintown Road (S.R. 3012) immediately south of the intersection of Lenor Drive and Puddintown Road.

NOTE: The University Police Department is the agency responsible for establishment and maintenance of the Traffic Control Points.



ATTACHMENT B
SCALE: 1" = 1200'

EMERGENCY ACTION PLAN

TRAFFIC CONTROL POINTS
AND ROAD CLOSURES
IN COLLEGE TOWNSHIP

REVISED DATE: MAY 20, 2016

PENNSYLVANIA STATE UNIVERSITY

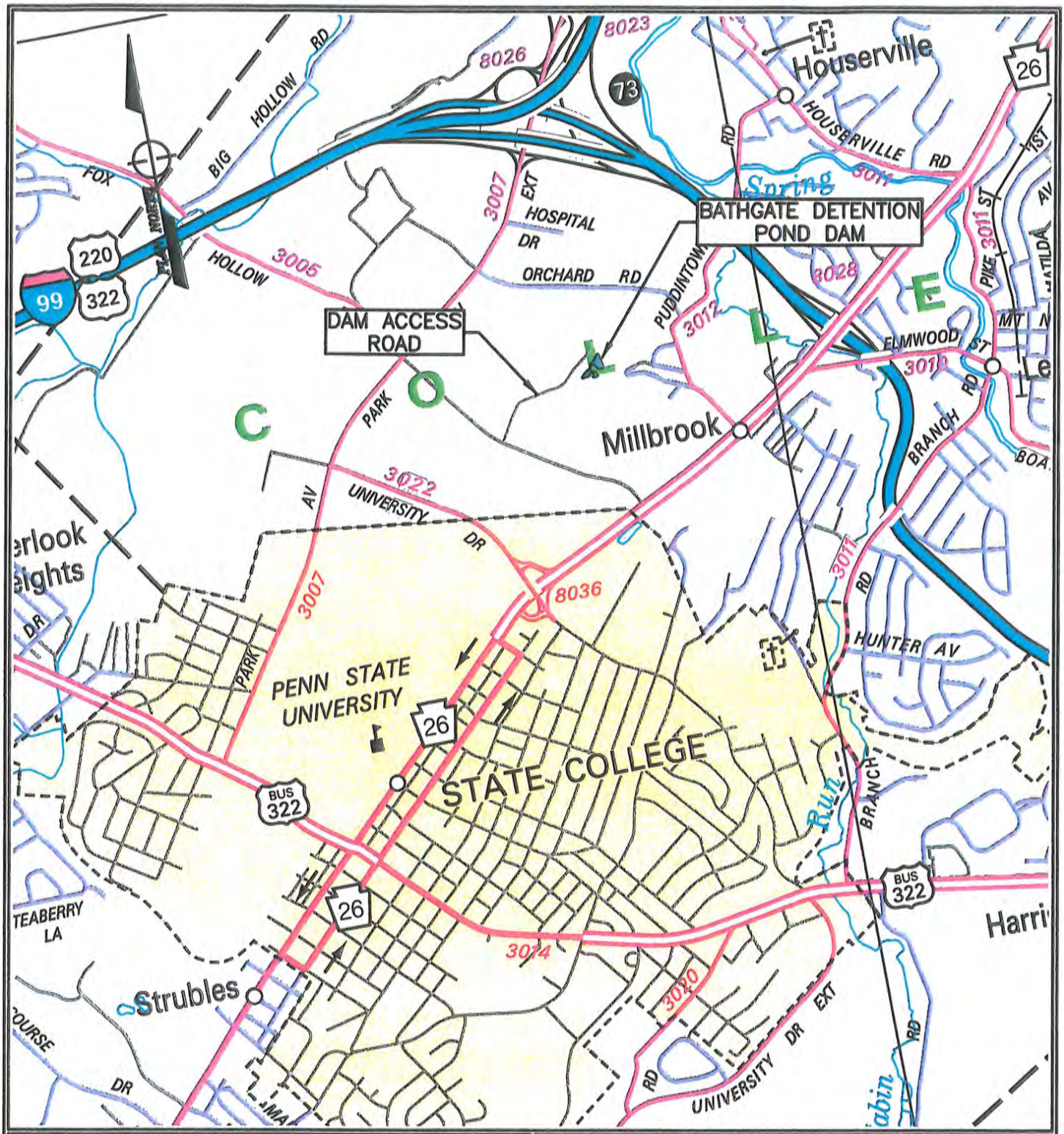
BATHGATE DETENTION POND DAM
DEP DAM NUMBER 014-122

COLLEGE TOWNSHIP
CENTRE COUNTY, PENNSYLVANIA
PROJECT NO.: 03-0018.117

ATTACHMENT C
LOCATION MAP

Directions to the Dam Site:

The entrance of the access road to the dam is located approximately 2,360 feet (~0.45 miles) southeast of the Porter Road and E. Park Avenue intersection and approximately 2,850 feet (~0.54 mile) northwest of the intersection of Porter Road and State Route 26 (E. College Ave). From the access road entrance, follow the access road northeast for approximately 2,450 feet (~0.46 miles) to the dam breast.



ATTACHMENT C
SCALE: 1" = 2500'

EMERGENCY ACTION PLAN

DAM LOCATION MAP

REVISED DATE: MAY 20, 2016

PENNSYLVANIA STATE UNIVERSITY

BATHGATE DETENTION POND DAM
DEP DAM NUMBER 014-122

COLLEGE TOWNSHIP
CENTRE COUNTY, PENNSYLVANIA
PROJECT NO.: 03-0018.117

ATTACHMENT D
TELEPHONE ROSTER

AGENCY/CONTACT NAME	NON-EMERGENCY	EMERGENCY
Pennsylvania State University University Park Physical Plant Andrew D. Gutberlet, Manager	(814) 865-0545	(814) 865-4731
Centre County 911/Emergency Communications Dale I. Neff, Director	(814) 355-6800	911
DEP Northcentral Regional Office	(570) 327-3636	(570) 327-3636
DEP Division of Dam Safety	(717) 787-8568	(717) 787-4343 (800) 541-2050 (717) 805-3057
Pennsylvania Emergency Management Agency	(717) 651-2001 (800) 424-7362	(717) 651-2001 (800) 424-7362
Centre County Emergency Management Agency Jeffrey A. Wharran, Director	(814) 355-6745	911
Centre Region Council of Governments Shawn R. Kauffman, Emergency Management Coordinator	(814) 235-7838	911
Penn State University Emergency Management Office, Brian Bittner, Director	(814) 867-3430	911
Penn State University Police Michael Lowery, Interim Chief	(814) 865-1864	911 and (814) 863-1111
State College Police Department Thomas King, Chief	(814) 234-7150	911
State College Area School District Van E. Swauger, Transportation Director	(814) 231-1034	(814) 238-4711
Alpha Fire Department Jeff Martin, Chief	(814) 237-5359	911
Centre Lifelink EMS Scott Rawson, Executive Director Kent Knable, EMS Chief	(814) 237-8163	911
American Red Cross–Centre Communities Chapter Virginia Dimeling Brown, Executive Director	(814) 237-3162	N/A
Centre County Commissioners Michael Pipe, Mark Higgins, Steven G. Dershem	(814) 355-6700	N/A
Centre County Planning Commission Robert B. Jacobs, Director	(814) 355-6791	N/A

AGENCY/CONTACT NAME	NON-EMERGENCY	EMERGENCY
College Township Municipal Authority	(814) 231-3021	N/A
College Township Supervisors Lynn B. Herman, D. Richard Francke, Carla Stilson Eric Bernier, Steven J. Lyncha	(814) 231-3021	N/A
Stiffler, McGraw & Associates, Inc. David R. Stiffler	(814) 696-6280	N/A
MEDIA CONTACTS		
TV STATIONS:		
WTAJ TV	(814) 237-1010	
WHVL TV	(814) 238-9485	
WWCP TV	(814) 237-4987	
C-Net TV	(814) 238-5031	
WRSC TV	(814) 237-4201	
WJAC TV	(814) 238-0604	
RADIO STATIONS:		
WRSC/WAPY Radio	(814) 237-4201	
WBHV/WOWY/WWSH Radio	(814) 238-5085	
WBUS Radio	(814) 867-9287	
WFGE Radio	(814) 272-0408	
WMAJ Radio	(814) 234-3550	
WPSU Radio	(814) 865-1877	
WGMR Radio	(814) 238-0717	
WTLR Radio	(814) 237-9857	
WRXV Radio	(814) 867-3836	
WUBZ Radio	(814) 272-2899	
WQJU Radio	(814) 288-9857	
WBLF Radio	(814) 272-1320	
WZWW Radio	(814) 231-0953	

ATTACHMENT E
MEDIA ANNOUNCEMENT

EARLY WARNING MESSAGE:

The Centre County Emergency Management Agency advises that due to conditions at the Bathgate Dam in College Township, the public should avoid the area downstream of the dam between Porter Road and Puddintown Road. Stay tuned for further information.

REPEAT PERIODICALLY

WARNING AND EVACUATION MESSAGE:

The Centre County Emergency Management Agency is advising all residents living downstream of the Bathgate Dam in College Township to evacuate the area immediately. Evacuate the area downstream of the dam including homes along Cedar Lane to Puddintown Road. If you require shelter during this emergency you should report to (insert location of reception/mass care center to be determined by Centre County EMC, American Red Cross or other VOAD) at the time of emergency.

REPEAT PERIODICALLY

INCIDENT RESOLVED - SAFE TO RETURN:

The Centre County Emergency Management Agency is advising residents of the area downstream of the Bathgate Dam in College 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.

ATTACHMENT F

NOTICE

UNIVERSITY PARK BATHGATE DETENTION POND DAM HAS BEEN CLASSIFIED 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

UNIVERSITY PARK BATHGATE DETENTION POND DAM

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

COLLEGE TOWNSHIP

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

THE PENNSYLVANIA STATE UNIVERSITY
OFFICE OF PHYSICAL PLANT
200 PHYSICAL PLANT BUILDING
UNIVERSITY PARK, PA 16802

CENTRE REGION EMA OFFICE
2643 GATEWAY DRIVE, SUITE #2
STATE COLLEGE, PA 16801

CENTRE COUNTY EMA
420 HOLMES STREET, ROOM 134
BELLEFONTE, PA 16823

COLLEGE TOWNSHIP MUNICIPAL OFFICE
1481 EAST COLLEGE AVENUE
STATE COLLEGE, PA 16801

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