

AD-A110 019

ARMY ENGINEER DISTRICT PHILADELPHIA PA
NATIONAL DAM SAFETY PROGRAM ABSTRACT, PHASE 1 INSPECTION REPORT--ETC(U)
SEP 81

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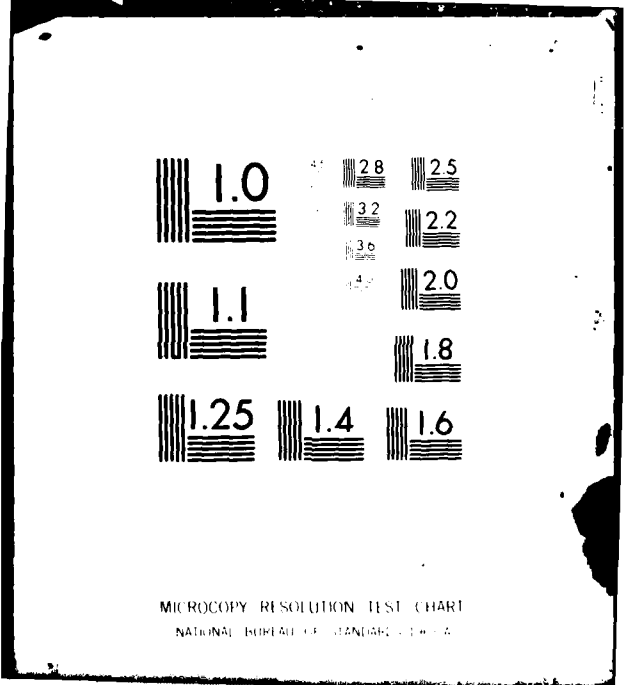
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REPORT NO: DAEN/NAP-53842 / DEA -81/09

NATIONAL DAM SAFETY PROGRAM

ABSTRACT

PHASE 1

INSPECTION REPORTS

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DEPARTMENT OF THE ARMY

Philadelphia District
Corps of Engineers
Philadelphia, Pennsylvania

SEPTEMBER 1981

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This listing comprises all dams in Delaware inspected under the National Dam Safety Program administered by the U.S. Army Corps of Engineers, Philadelphia District.		

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O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA

National Dam Safety Program, Lake Como Dam (DE 00028), Delaware River Basin, Mill Creek, Kent County, Delaware, Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

NOV 80 100P Williams, John J. ;
CONTRACT: DACW61-80-D-0013
MONITOR: DAEN/NAP 53842/DE00028-80/11

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DTIC and NTIS reproductions will be in black and white.

ABSTRACT: This report cites results of a technical investigation as to the dam's adequacy. The inspection and evaluation of the dam is as prescribed by the National Dam Inspection Act, Public Law 92-367. The technical investigation includes visual inspection, review of available design and construction records, and preliminary structural and hydraulic and hydrologic calculations, as applicable. An assessment of the dam's general condition is included in the report. (Author)

DESCRIPTORS: *Earth dams, Delaware, Reserviors, Visual inspection, Hydrology, Flooding, Damag
IDENTIFIERS: *Lake Como Dam, National Dam Inspection Program (U)
(U)
(U)

AD-A087 331

13/13

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND COURTNEY DIV

National Dam Safety Program, Millsboro Pond Dam, (DE00018), Delaware River Basin, Indian River, Sussex County, Delaware, Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

DEC 79 90P Williams, John J. ;
CONTRACT: DACW61-78-C-0052
MONITOR: DAEN/NAP 53842/DE00018-79/12

UNCLASSIFIED REPORT

Availability: Document partially illegible.
ABSTRACT: This report cites results of a technical investigation as to the dam's adequacy. The inspection and evaluation of the dam is as prescribed by the National Dam Inspection Act, Public Law 92-367. The technical investigation includes visual inspection, review of available design and construction records, and preliminary structural and hydraulic and hydrologic calculations, as applicable. An assessment of the dam's general condition is included in the report. (Author)

DESCRIPTORS: *Earth dams, Delaware, Reserviors, Visual inspection, Safety, Stability, Hydrology, Flooding, Deficiencies
IDENTIFIERS: *Millsboro Pond Dam, National Dam Inspection Program, Spillways (U)
(U)
(U)

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O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND COURTNEY DIV

National Dam Safety Program, Porter Reservoir Dam (DE 00013) Delaware River Basin, Matson Run Offstream, New Castle County, Delaware. Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

DEC 79 60P Williams, John J. ;
CONTRACT: DACW61-78-C-0052
MONITOR: DAEN/NAP 53842/DE00013-79/12

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DTIC and NTIS reproductions will be in black and white.

ABSTRACT: Based on visual inspection, available records, calculations and past operational performance, Porter Reservoir, a high hazard potential structure, is judged to be in good overall condition. The reservoir is capable of storing the selected design storm of one half of the Probable Maximum Precipitation. To ensure adequacy of the structure, remedial actions which should be initiated within six months from the date of approval of this report, are provided. (U)

DESCRIPTORS: *Earth dams, Delaware, Reservoirs, Visual inspection, Safety, Stability, Hydrology, Flooding, Deficiencies, Water supplies (U)
IDENTIFIERS: *Porter Reservoir Dam, National Dam Inspection Program (U)

AD-A084 058

13/13

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND COURTNEY DIV

National Dam Safety Program, Edgemoor Reservoir (DE00012). Delaware River Basin, Shellpot Creek Offstream, New Castle County, Delaware. Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

DEC 79 49P Williams, John J. ;
CONTRACT: DACW61-78-C-0052
MONITOR: DAEN/NAP 53842/DE00012-79/12

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DTIC and NTIS reproductions will be in black and white.

ABSTRACT: Edgemoor Reservoir is an offstream impoundment located approximately 1,000 feet west of Shellpot Creek and 300 feet east of the corporate boundary of the City of Wilmington, Delaware. The dam is a homogeneous earth embankment aligned in a circular configuration in plan so that the dam completely encloses the reservoir. The circular length of the embankment is approximately 1,760 feet and the maximum height is about 17 feet. The interior slope of the embankment is lined with concrete and stone masonry. The reservoir functions as a water supply impoundment for the Wilmington Suburban area. The selected design storm for this small size, high hazard dam is 50 percent of the Probable Maximum Precipitation (PMP). The reservoir is capable of retaining approximately 88 percent of the design storm without overtopping of the embankment. The initial reservoir level was taken as Elevation 82.3, which is shown as the flow line elevation (one foot below the top of dam). The design storm would overtop the embankment by approximately 1.7 inches. Therefore, the flood storage capacity of the reservoir is inadequate for retaining the design storm. (U)

DESCRIPTORS: *Earth dams, Delaware, Reservoirs, Visual inspection, Safety, Stability, Hydrology, Flooding, Deficiencies (U)
IDENTIFIERS: *Edgemoor Reservoir Dam, National Dam Inspection Program (U)

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O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA

National Dam Safety Program, Cool Springs Reservoir Dam (DE 00014). Delaware River Basin, Brandywine Creek, New Castle County, Delaware. Phase 1 Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

JUL 79 60P Williams, John J. ;

CONTRACT: DACW61-79-C-0011

MONITOR: DAEN/NAP 53842/DE00014-79/07

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with O'Brien and Gere, Philadelphia, PA. Original contains color plates: All DDC and NTIS reproductions will be in black and white.

ABSTRACT: This report cites results of a technical investigation as to the dam's adequacy. The inspection and evaluation of the dam is as prescribed by the National Dam Inspection Act, Public Law 92-367. The technical investigation includes visual inspection, review of available design and construction records, and preliminary structural and hydraulic and hydrologic calculations, as applicable. An assessment of the dam's general condition is included in the report. (Author)

DESCRIPTORS: *Dams, *Inspection, *Structural analysis, Safety, Delaware, Civil engineering, Reservoirs, Water supplies, Hydrology, Maintenance, Geology, Visual inspection
IDENTIFIERS: *Cool Springs Reservoir Dam, National Dam Safety Program, Spillways

(U)

(U)

(U)

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O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA

National Dam Safety Program, Hoopes Dam (DE-00015) Delaware River Basin, Old Mill Stream, New Castle County, Delaware. Phase 1 Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

JUL 79 84P Williams, John J. ;

CONTRACT: DACW61-79-C-0011

MONITOR: DAEN/NAP 53842/DE00015-79/07

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DDC and NTIS reproductions will be in black and white.

ABSTRACT: This report cites results of a technical investigation as to the dam's adequacy. The inspection and evaluation of the dam is as prescribed by the National Dam Inspection Act, Public Law 92-367. The technical investigation includes visual inspection, review of available design and construction records, and preliminary structural and hydraulic and hydrologic calculations, as applicable. An assessment of the dam's general condition is included in the report. (Author)

(U)

(U)

(U)

DESCRIPTORS: *Dams, *Inspection, *Structural analysis, Safety, Delaware, Civil engineering, Reservoirs, Water supplies, Hydrology, Maintenance, Geology, Visual inspection
IDENTIFIERS: *Hoopes Dam, National Dam Safety Program, Spillways

AD-A070 228

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THOMAS TYLER MOORE AND LIPPINCOTT
ENGINEERING ASSOCIATES, DELANCO NJ

National Dam Safety Program. Williams
Pond Dam (DE00364), Nanticoke River
Basin, Clear Brook, Sussex County,
Delaware. Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

APR 79 118P Lippincott, I. Wayne ;

CONTRACT: DACW61-78-C-0124

MONITOR: DAEN/NA- 53842/DE00064-79/04

UNCLASSIFIED REPORT

Availability: Document partially illegible.

SUPPLEMENTARY NOTE: Prepared in cooperation with Moore-
Lippincott Engineers, Trenton, NJ.

ABSTRACT: This report cites results of a technical
investigation as to the dam's adequacy. The
inspection and evaluation of the dam is as prescribed
by the National Dam Inspection Act, Public
Law 92-367. The technical investigation includes
visual inspection, review of available design and
construction records, and preliminary structural and
hydraulic and hydrologic calculations, as applicable.
An assessment of the dam's general condition is
included in the report. (Author)

(U)

DESCRIPTORS: *Earth dams. *Inspection. *Structural
analysis. Safety. Delaware. Civil engineering.

(U)

RECREATION, VISUAL INSPECTION, MAINTENANCE,
HYDROLOGY, RESERVOIRS

(U)

IDENTIFIERS: *National Dam Safety Program,
*Williams Pond Dam, Spillways

AD-ACC9 616

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THOMAS TYLER MOORE AND LIPPINCOTT
ENGINEERING ASSOCIATES, DELANCO NJ

National Dam Safety Program. Wagamons
Pond (DE00061), Delaware River Basin,
Broadkill River Basin, Sussex County,
Delaware. Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

MAR 79 128P Moore, Thomas Tyler ;

CONTRACT: DACW61-78-C-0124

MONITOR: DAEN/NAP 53842/DE00061-79/03

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates; all
DTC reproductions will be in black and white. Prepared
in cooperation with Moore and Lippincott Engineers,
Trenton, NJ.

ABSTRACT: This report cites results of a technical
investigation as to the dam's adequacy. The
inspection and evaluation of the dam is as prescribed
by the National Dam Inspection Act, Public
Law 92-367. The technical investigation includes
visual inspection, review of available design and
construction records, and preliminary structural and
hydraulic and hydrologic calculations, as applicable.
An assessment of the dam's general condition is
included in the report. (Author)

(U)

DESCRIPTORS: *Dams. *Inspection. *Structural
analysis. Safety. Delaware. Civil engineering.

(U)

RECREATION, RESERVOIRS, HYDROLOGY, VISUAL
INSPECTION, MAINTENANCE

(U)

IDENTIFIERS: *National Dam Safety Program,
*Wagamons Pond Dam, Spillways

(U)

AD-A069 602

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13/13

**THOMAS TYLER MOORE AND LIPPINCOTT
ENGINEERING ASSOCIATES, DELANCO N.J**

National Dam Safety Program, Sunset Lake
Dam (DE00046). Christina River Basin,
Muddy Run, New Castle County, Delaware.
Phase 1 Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

FEB 79 102P Moore, Thomas Tyler ;

CONTRACT: DACW61-78-C-0124

MONITOR: DAEN/NAP 53842/DE00046-79/02

UNCLASSIFIED REPORT

Availability: Document partially illegible.
SUPPLEMENTARY NOTE: Prepared in cooperation with Moore
and Lippincott Engineers, Trenton, NJ.

ABSTRACT: This report cites results of a technical
investigation as to the dam's adequacy. The
inspection and evaluation of the dam is as prescribed
by the National Dam Inspection Act, Public
Law 92-367. The technical investigation includes
visual inspection, review of available design and
construction records, and preliminary structural and
hydraulic and hydrologic calculations, as applicable.
An assessment of the dam's general condition is
included in the report. (Author)

(U)

DESCRIPTORS: *Earth Dams, *Inspection,
*Structural analysis, Safety, Delaware, Civil
engineering, Lakes, Recreation, Hydrology,
Maintenance, Visual inspection, Geology
IDENTIFIERS: *National Dam Safety Program,
*Sunset Lake Dam, Spillways

(U)

(U)

AD-A069 593

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**THOMAS TYLER MOORE AND LIPPINCOTT
ENGINEERING ASSOCIATES, DELANCO NJ**

National Dam Safety Program, Wyoming Lake
Dam (DE 00034), Jones River Basin, Isaac
Branch, Kent County, Delaware. Phase I
Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

APR 79 98P Moore, Thomas Tyler ;

CONTRACT: DACW61-78-C-0124

MONITOR: DAEN/NAP 53842/DE00034-79/04

UNCLASSIFIED REPORT

Availability: Document partially illegible.
SUPPLEMENTARY NOTE: Prepared in cooperation with Moore
and Lippincott Engineers, Trenton, NJ.

ABSTRACT: This report cites results of a technical
investigation as to the dam's adequacy. The
inspection and evaluation of the dam is as prescribed
by the National Dam Inspection Act, Public
Law 92-367. The technical investigation includes
visual inspection, review of available design and
construction records, and preliminary structural and
hydraulic and hydrologic calculations, as applicable.
An assessment of the dam's general condition is
included in the report. (Author)

(U)

DESCRIPTORS: *Dams, *Inspection, *Structural
analysis, Safety, Delaware, Civil engineering,
Reservoirs, Recreation, Visual inspection,
Maintenance, Fisheries, Hydrology
IDENTIFIERS: *National Dam Safety Program,
*Wyoming Lake Dam, Spillways

(U)

(U)

AD-A069 215 13/2 13/13

**THOMAS TYLER MOORE AND LIPPINCOTT
ENGINEERING ASSOCIATES, DELANCO NJ**

National Dam Safety Program, Horseys Pond
Dam (DE 00022), Nanticoke River Basin,
Little Creek, Sussex County, Delaware.
Phase 1 Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

APR 79 118P Moore, Thomas Tyler ;

CONTRACT: DACW61-78-C-0124

MONITOR: DAEN/NAP 53842/DE00022-79/04

UNCLASSIFIED REPORT

Availability: Document partially illegible.
SUPPLEMENTARY NOTE: Prepared in cooperation with Moore
and Lippincott-Engineers, Trenton, NJ. Includes
envelope containing charts.

ABSTRACT: This report cites results of a technical
investigation as to the dam's adequacy. The
inspection and evaluation of the dam is as prescribed
by the National Dam Inspection Act, Public
Law 92-367. The technical investigation includes
visual inspection, review of available design and
construction records, and preliminary structural and
hydraulic and hydrologic calculations, as applicable.
An assessment of the dam's general condition is
included in the report. (Author)

(U)

DESCRIPTORS: *Dams, *Inspection, *Structural
Analysis, Safety, Delaware, Civil engineering,
Recreation, Hydrology, Maintenance, Visual
inspection

(U)

IDENTIFIERS: *National Dam Safety Program,

(U)

*Horseys Pond Dam, Spillways

AD-A058 511 13/2 13/12

**O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND
COURTNEY DIV**

National Dam Safety Program, Silver Lake
Dam (DE00041), Mispillon River Basin,
Mispillon River, Kent County, Delaware.
Phase 1 Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

JUN 78 63P Williams, John J. ;

CONTRACT: DACW61-78-C-0052

MONITOR: DAEN/NAP 53842/DE00041-78/06

UNCLASSIFIED REPORT

ABSTRACT: This report cites results of a technical
investigation as to the dam's adequacy. The
inspection and evaluation of the dam is as prescribed
by the National Dam Inspection Act, Public
Law 92-367. The technical investigation includes
visual inspection, review of available design and
construction records, and preliminary structural and
hydraulic and hydrologic calculations, as applicable.
An assessment of the dam's general condition is
included in the report. (Author)

(U)

DESCRIPTORS: *Earth dams, *Inspection, Safety,
Civil engineering, Visual inspection, Flood
control, Water supplies, Records, Hydrology,
Delaware, Maintenance management, Hydrology
IDENTIFIERS: *Silver Lake Dam, National Dam
Safety Program

(U)

(U)

AD-A058 464

13/2 13/12

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND COURTNEY DIV

National Dam Safety Program, Records Pond Dam (DE00057), Nanticoke River Basin, Broad Creek, Sussex County, Delaware, Phase 1. Inspection Report. (U)

DESCRIPTIVE NOTE: Final rept.,

JUN 78 82P Williams, John J. ;
CONTRACT: DACW61-78-C-0052
MONITOR: DAEN/NAP 53842/DC00057-78/06

UNCLASSIFIED REPORT

Availability: Document partially illegible.
ABSTRACT: This report cites results of a technical investigation as to the dam's adequacy. The inspection and evaluation of the dam is as prescribed by the National Dam Inspection Act, Public Law 92-367. The technical investigation includes visual inspection, review of available design and construction records and preliminary structural and hydraulic and hydrologic calculations, as applicable. An assessment of the dam's general condition is included in the report. (Author)

DESCRIPTORS: *Earth dams, *Inspection, Safety, Civil engineering, Flood control, Water supplies, Visual inspection, Records, Delaware, Hydrology, Army Corps of Engineers, Structural analysis, Geology (U)
IDENTIFIERS: *Records Pond Dam, National Dam Safety Program (U)

AD-A058 462

13/2 13/12

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND COURTNEY DIV

National Dam Safety Program, Haven Lake Dam (DE00042), Mispillion River Basin, Mispillion River, Kent County, Delaware, Phase 1. Inspection Report. (U)

DESCRIPTIVE NOTE: Final rept.,

JUN 78 61P Williams, John J. ;
CONTRACT: DACW51-78-C-0052
MONITOR: DAEN/NAP 53842/DE00042-78/06

UNCLASSIFIED REPORT

Availability: Document partially illegible.
ABSTRACT: This report cites results of a technical investigation as to the dam's adequacy. The inspection and evaluation of the dam is as prescribed by the National Dam Inspection Act, Public Law 92-367. The technical investigation includes visual inspection, review of available design and construction records, and preliminary structural and hydraulic and hydrologic calculations, as applicable. An assessment of the dam's general condition is included in the report. (Author)

DESCRIPTORS: *Earth dams, *Inspection, Safety, Civil engineering, Water supplies, Visual inspection, Structural analysis, Delaware, Army Corps of Engineers, Flood control, Hydrology, Records (U)
IDENTIFIERS: *Haven Lake Dam, National Dam Safety Program (U)

AD-A057 800

13/2 13/12

ARMY ENGINEER DISTRICT PHILADELPHIA PA

National Dam Safety Program, Silver Lake Dam, DE00031, Delaware River Basin, St. Jones River, Kent County, Dover, Delaware. Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept...
JAN 78 74P Vinci, Frank W. ;
REPT. NO. DAEN/NAP-53842/De00031-78/01

UNCLASSIFIED REPORT

Availability: Document partially illegible.
ABSTRACT: This report cites results of a technical investigation as to the dam's adequacy. The inspection and evaluation of the dam is as prescribed by the National Dam Inspection Act, Public Law 92-367. The technical investigation includes visual inspection, review of available design and construction records and preliminary structural and hydraulic and hydrologic calculations, as applicable. An assessment of the dam's general condition is included in the report. (Author)

(U)

DESCRIPTORS: *Earth dams, *Inspection, *Safety, Structural analysis, Degradation, Erosion, Banks(Waterways), Maintenance, Flood control, Delaware

(U)

ADDRESSES OF ARCHITECTS/ENGINEERS

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2nd & Chestnut Sts.
Philadelphia, Pennsylvania 19106
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