VILLAGE OF ROAMING SHORES, OHIO

SPECIFICATIONS

INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM

MEMBER ENTITY: OH1050024-P09

Bid Opening: Wednesday, September 28, 2011
Kevin Grippi
Village Administrator

Village of Roaming Shores, Ohio
2500 Hayford Road, P.O. Box 237
Roaming Shores, Ohio 44084

VILLAGE OF ROAMING SHORES, OHIO
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
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VILLAGE OF ROAMING SHORES, OHIO
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
NOTICE TO BIDDERS

Sealed bids will be received by the Village Hall, of the Village of Roaming Shores, Ashtabula County, Ohio, 2500 Hayford Road, P.O. Box 237, Roaming Shores, Ohio, until 10:30 a.m., Eastern Standard Time, WEDNESDAY, SEPTEMBER 28, 2011, for the purchase of **INSURANCE FOR THE PROPERTY / CASUALTY INSURANCE PROGRAM** for the Village of Roaming Shores at such time and place the bids will be publicly opened and read aloud.

Detailed specifications and bid forms are on file and copies may be obtained in the Village Hall, 2500 Hayford Road, P.O. Box 237, Roaming Shores, Ohio or online at www.roamingshoresOH.gov. The policy shall be effective **OCTOBER 1, 2011**.

Each bid must be accompanied by a Bid Bond, Certified Check or Cashiers Check for l0% of the amount of the annual bid price submitted, unless otherwise specified. Bids cannot be withdrawn for a period of ninety days (90) after the bid opening.

The Village of Roaming Shores, Ohio reserves the right to reject any or all bids or to correct or waive irregularities in bids should it be deemed in the best interest of the Village of Roaming Shores, Ohio.

Kevin Grippi
Village Administrator

Advertise: Twice in September, 2011

VILLAGE OF ROAMING SHORES, OHIO
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
INSTRUCTIONS TO BIDDERS

1. Sealed bids will be received by the Village Hall of the Village of Roaming Shores, Ashtabula County, Ohio, until 10:30 a.m. Eastern Standard Time, WEDNESDAY, SEPTEMBER 28, 2011 at which time bids will be publicly opened and read aloud for the purchase of **INSURANCE FOR THE PROPERTY / CASUALTY INSURANCE PROGRAM** as per the specifications and schedules included in these specifications. Such insurance shall be bid subject to the forms designated in the attached specifications or their equivalent.

   Each bid must be enclosed in a sealed envelope, clearly marked "**INSURANCE FOR THE PROPERTY / CASUALTY INSURANCE PROGRAM** for the Village of Roaming Shores" on the face of the envelope and also display the name and address of the bidder.

2. **ALL INSURANCE PROPOSED IS TO BECOME EFFECTIVE OCTOBER 1, 2011.**

3. **Please note: All bids submitted for coverage must be on a two-year basis with an annual premium quoted**. This will permit the Village to make appropriate comparisons of the submitted bids.

4. The Village of Roaming Shores may solicit a quote from the successful bidder for an extension of the contract for a period not to exceed two additional years. The Village and the successful bidder will execute the extension of the contract for each additional year not later than July 15 of each year succeeding the original contract year, if the Village accepts the quote for the extension.

5. **Bidders must respond to *each* of the detailed inquires in the attached specifications. Failure to respond to any inquiry may cause the bid submitted to not be considered. Each submitted bid *must* be accompanied by the following items. Any proposal received without any of these requested items will *not* be considered**.

   1. A complete specimen of sample policy with all proposed endorsements attached.
   2. The enclosed insurance identification form *completed and signed*.
   3. The bid summary sheet listing a gross premium for all coverage bid.
   4. The general coverage provisions sheet *completed.*
   5. The most recent financial statements for *each* proposed insurer.
   6. The most recent Best's Policyholder and Financial Rating for *each* proposed insurer.
   7. **NOTE:** If you are bidding a pool or other non-commercial insurer the Village of Roaming Shores requires certain additional information to be provided with respect to these insurers. Please contact Kevin Grippi, Village Administrator, for a listing of the required information.

6. All insurers must be admitted to do business in the State of Ohio or be on the Ohio Department of Insurance's "Eligible Surplus Lines of Insurers List".

7. The Village reserves the absolute right to reject any and all bids or proposals or to accept any bid or proposal judged to be in the best interest of the Village. It also reserves the right to reject any portion of any type of coverage or to reject any insurer used as a part of any quotation or proposal submitted if it is deemed in the Village's judgment to be in the best interest of the Village.

8. If you submit a bid that has exceptions and/or additions to the attached specifications, they must be separately stated and attached as a part of the submission. Alternate quotations not based exactly on the enclosed specifications will be considered by the Village, if they are separately stated. The Village's loss experience for the past few years for the relevant coverage and other pertinent information is included in the Appendixes of the specifications.

9. Bids must be received by **10:30 AM, WEDNESDAY, SEPTEMBER 28, 2011** in the Village Hall. Complete proposals submitted via email to administrator@roamingshoresOH.gov will be accepted. No bid may be withdrawn for a period of ninety (90) days after the scheduled closing time for the receipt of bids.

10. Each bid must be accompanied by a Certified Check, Cashiers Check or Bid Bond payable to the Village of Roaming Shores in an amount equal to at least ten (10%) percent of the proposed premium for a one (1) year policy. Said bid security is a guarantee that the bidder, if successful in his bid, will upon notification by the Village of Roaming Shores, furnish within fourteen (14) days the completed and properly executed policy or policies of insurance specified herein. In any event, insurance protection is to be effective until **OCTOBER 1, 2011**.

    The amount of bid security shall be determined by adding all prices for each item bid and multiplying the same by 10% (based on a one-year premium).

11. No Contract will be awarded to any person, firm or corporation that is in arrears to the Village of Roaming Shores, Ohio, upon any debt, tax or Contract, or who has failed to execute in whole or in part, in a satisfactory manner, any Contract with the Village, or who is a defaulter as to Surety or otherwise upon any obligation to the Village of Roaming Shores.

12. Each bid shall be accompanied by a Non-Collusion Affidavit and an Affidavit of Contractor or Supplier of Non-Delinquency of Personal Property Taxes executed on the forms provided. **THESE FORMS MUST BE COMPLETED AT THE TIME THE BID IS SUBMITTED**.

VILLAGE OF ROAMING SHORES, OHIO
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
INSTRUCTIONS TO BIDDERS (continued)

13. Any questions concerning these bid procedures or Village activities may be directed to:

Kevin Grippi, Administrator
Village of Roaming Shores
2500 Hayford Road, P.O. Box 237
Roaming Shores, Ohio 44084
(440) 563-5083

VILLAGE OF ROAMING SHORES, OHIO
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
C O N T R A C T

NOTE TO BIDDERS**:** The bidder is warned not to fill in any of the following blanks. After the Contract is awarded, the blanks will be filled out under the direction of the Village Solicitor.

ARTICLES OF AGREEMENT:

The Agreement made and entered into this **(date)** day of **(month)**, 2011 by and between the Village of Roaming Shores, Ohio, party of the first part, and **(name & title and/or company name contracted with to be inserted here)** party of the second part.

WITNESSETH: That the parties hereto for themselves, their heirs, administrators, executors, and successors have agreed that the part of the second part shall furnish all materials and services and carry our and complete said work in conformity with the specifications and terms and conditions of this Agreement the following:

PURCHASE OF INSURANCE – (*to include insurance policy to be purchased)*

in the Village of Roaming Shores, Ashtabula County, Ohio, in accordance with the specifications, including all pertinent work listed or implied in said specifications.

AND that the party of the first part shall pay therefore the prices, named and set forth in the Bid of the party of the second part, subject to the terms and conditions of this Agreement as herein set forth, the Contract prices being:

Description and amounts of insurance types, premiums, and deductibles

VILLAGE OF ROAMING SHORES, OHIO
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
C O N T R A C T (continued)

THE provisions contained in the "Notice to Bidders", in the "Instructions to Bidders", in the "Bid Form", and in the "Specifications" as well as any drawings or other information for this work on file in the Office of the Village Mayor are hereby also embodied as part of this Agreement.

AND the party of the second part does agree to make prompt and full payment for all labor, material and equipment used, supplies necessary to affect the satisfactory completion of said work and to save the Village harmless from all damages or expense by reason of his failure to do so.

IN WITNESS WHEREFO, the Village of Roaming Shores, Ohio, has hereunto caused its Name and Corporate Seal to be affixed by, **(Village Mayor Name to be inserted here)**, its Village Mayor thereunto duly authorized, **(name & title and/or company name contracted with to be inserted here)** has executed these presents this **(date)** day of **(month)**, 2011.

Contract **(number)**

CONTRACTOR

(name & title and/or company name contracted with to be inserted here)

By:_____

Title:_____

VILLAGE OF ROAMING SHORES, OHIO

By:_____
John Ball
Village Mayor

VILLAGE OF ROAMING SHORES, OHIO
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
C O N T R A C T (continued)

CERTIFICATE:
The undersigned, Village Administrator of the Village of Roaming Shores, Ohio, hereby certifies that funds to cover payment for services or supplies embodied in this contract are presently available or in the process of collection and that Council has appropriated money for this purpose, and it remains unencumbered.

_____
Village Administrator
Village of Roaming Shores, Ohio

Contract Approved as to Form:

_____
Solicitor
Village of Roaming Shores, Ohio

Contract Approved as to Content:

_____
Kevin Grippi
Village Administrator

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
INSURANCE IDENTIFICATION FORM

(A copy of this form must be submitted for *each* insurer proposed by the submitter)

Insuring Company's Name_____
Address_____
City _____ **State**_____ **Zip**_____

Name of Local Claim Person for this Insurer_____
Address_____
City _____ **State**_____ **Zip**_____ **Telephone**_____

Agency or Insure Submitting this Bid/Quotation_____
Address_____
City _____ **State**_____ **Zip**_____ **Telephone**_____
Social Security Number of Agency Owner or Federal Identification Number_____

Do you agree that if you are asked to write any or all of the insurance represented by the attached specifications that you will provide the Village of Roaming Shores with issued policies complete with all endorsements within 90 days after you are asked to write said insurance?
Yes_____ No_____ (Exceptions will be made to this requirement if there are unresolved coverage issues outstanding between the Village and the insurers you choose). Failure to provide the policies within 90 days will cause the Village to cancel the policies flat without penalty.

Signed_____
Print Name_____
Title_____
Firm_____
Address_____
City _____ State_____ Zip_____
Telephone_____
E-mail_____
Home or cell phone (Optional)_____

Additional Information You Wish to Provide

_____
_____
_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
GENERAL COVERAGE PROVISONS

(A copy of this form must be submitted for *each* insurer proposed by the submitter)

Agency Submitting_____**Insurer**_____

Three Year Policies:
Will you provide a three-year policy for any or all the coverage for which you have submitted bids?
Yes_____ No_____
Coverage exceptions

_____
_____
_____

Rate Guarantee:
Will you provide a three-year rate guarantee for any or all of the coverage for which you have submitted bids?

Three-Year Rate Guarantee Yes_____ No_____

Coverage exceptions

_____
_____
_____

Is your rate guarantee subject to a loss ratio requirement?
Yes_____ No_____ If a loss ratio is required, please list %_____
List overages to which loss ratio provision applies, if not universally applied to all coverage

_____
_____
_____

Installments:
Will you offer annual premium installments if a three-year policy is written?
Yes_____ No_____
Coverage exceptions

_____
_____
_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM -- SUMMARY SHEET

(This completed sheet on gross premiums must be returned and should be placed on top of you bid submission).

Agency Submitting_____ **Insurer**_____

Please summarize your bid according to the following form. If you submit bids from more than one insurer, copy this sheet and submit for each insurer. If you bid items that are not covered in the specifications, summarize them in the "Comments" section below.

Coverage	**Premium**
General Liability	_____
Police Professional Liability	_____
Auto Liability / Physical Damage	_____
Employment Practices Liability (if quoted separately)	_____
Umbrella Liability	_____
Property Insurance	_____
TOTAL FOR THIS INSURER	_____

Comments or variations pertaining to the above.

_____
_____
_____
_____
_____
_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – GENERAL LIABILITY

Please provide quotations according to the following schedule of liability limits. If you are also quoting Umbrella Liability, you need quote only $1,000,000 limit.

1. **Liability Limits** **Premium**

   $1,000,000 _____

   $2,000,000 _____

   $3,000,000 _____

   $4,000,000 _____

   $5,000,000 _____

   Quote $1,000,000 liability limit using the following bodily injury and property damage liability deductibles.

2. **BI/PD Deductibles** **Premium**

   $500 _____

   $1,000 _____

   $2,000 _____

   $3,000 _____

3. Indicate **Products/Completed Operations** limit, if different from GL limit.

   _____

   _____

4. **Limit/Aggregate.** Please indicate the ***minimum aggregate*** you require for a one (1) million limit. Indicate ***all*** other aggregates you are willing to write with a one (1) million limit.
   Minimum aggregate (1m limit)_____ Premium, if different than above_____

   Other Aggregates and Premiums (1m limit)_____

   _____

   _____

   _____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – GENERAL LIABILITY (continued)

If you are not quoting Umbrella Liability, please list aggregate limits for all occurrence limits you quoted above.

_____

_____

_____

5. **Medical Expenses** **Premium**

   $3,000 _____

   $5,000 _____

   $10,000 _____

6. **Fire Damage Legal Liability Limit** **Premium**

   $250,000 _____

   $500,000 _____

   $1,000,000 _____

7. **Employee Benefits Liability** **Premium**

   $1,000,000 Limit, Quote $1,000 deductible _____

   Aggregate?_____

8. **Employers/StopGap Liability Limit** **Premium**

   $1,000,000 Limit

   Full StopGap coverage with "substantially certain to occur" exclusion removed. _____

   Limited StopGap coverage, intentional torts not covered. _____

9. **List Any Other Applicable Aggregate Limits *not* displayed under 4. above**

_____

_____

_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – GENERAL LIABILITY (continued)

Please indicate with respect to you bid whether your coverage pertaining to general liability includes the following:

Occurrence Basis: Yes_____X___ No_____

Coverage Form: Is your coverage form at least as broad as that provided by ISO commercial general liability policy form (CG 00 01) Yes__X_____ No_____ If No, please list differences See Specimen policy and proposal listing extensions of coverage which are much broader than ISO Forms._____.

Fellow Employee Exclusion: Will you remove this exclusion? Agree_____ Decline_____ If you are unable to remove this exclusion, will you revise "Who is Insured" section of the policy to indicate that the fellow employee exclusion does not apply to named supervisory employees while acting within the scope of their duties. Agree_____ Decline___**NONE IN POLICY**

Employee Benefits Liability: Proved on an occurrence basis? Agree _X__Decline_____ If claims-made, will you prior provide Full Prior Acts? Yes_____ No_____ If not Full Prior Acts, what retroactive date will you offer?_____

Unintentional Hazard Disclosure Endorsement: Please provide a copy of an endorsement you would use agreeing the unintentional failure of the insured as of the inception of the policy to disclose hazards will not void coverage. If you do not have such an endorsement, will you manuscript an endorsement containing language similar to the following:

> ***"Unintentional Errors and Omissions Endorsement***
> *It is agreed that the failure of the named insured to disclose all hazards or occurrences as of the inception of this policy will not prejudice the coverage under this policy provided the error or omission was not intentional."*
> Will Provided_____N/A_____ Unable to provide_____

Delayed Notice of Occurrence Endorsement: Please include a copy of an endorsement that you would use indicating that knowledge of an occurrence shall not constitute knowledge of the insured unless notice of a lost is received by the Village Mayor or the Village Administrator. If you do not have such an endorsement, will you manuscript an endorsement containing language similar to the following:

> *"**Delayed Notice of Occurrence Endorsement***
> *Knowledge of an occurrence by the agent, servant or employee of the named insured shall not in or of itself constitute knowledge of the insured unless the Village Mayor and/or Village Administrator shall have received notice from its agent, servant or employees."*
> Will provide as soon as practicable_____Unable to provide_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – GENERAL LIABILITY (continued)

Elected or Appointed Officers as Additional Insureds: Will you modify the "Who Is Insured" provision to include elected or appointed officers and members of boards, commissions, or agencies? Agree__X__ Decline_____
POLICY INCLUDES PAST, PRESENT, AND FUTURE OFFICERS AND BOARD COMMISION AND AGENCY MEMBERS AS WELL AS EMPLOYEES, VOLUNTEERS AND STUDENTS.
Coverage for Volunteers: Will you include coverage for volunteers? Agree_____
Decline_____

Blanket Contractual Liability: Does your form provide blanket contractual liability coverage? Yes_____ No_____

Waiver of Governmental Immunity: Will you attach an endorsement waiving the defense of governmental immunity? Agree_____ Decline_____
.

Will you attach an amendment for **Aggregate Limits of Insurance (Per Project)?** Yes_____
No____X__ Not required as no aggregate limits apply

Will you attach an amendment for **Aggregate Limits of Insurance (Per Location)?** Yes_____
No___X___ Not required as no aggregate limits apply.

Will you provide 90 Day Notice of Insurer Cancellation? Yes_____ No_____
60 Days is provided under the Intergovernmental Contract.
Additional Comments
****SEE SPECIMEN POLICY AND PROPOSAL FOR ADDITIONAL EXTENSIONS .

NOTE: Your quote should exclude the Fire Department Liability. The Village's fire and ambulance service is provided by townships.

VILLAGE OF ROAMING SHORES

INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – PUBLIC OFFICALS LIABILITY

Limits of Liability

Quote the following limits:

Limits	**Premium**
Quote $1,000 deductible	
$1,000,000 each occurrence, $1,000,000 aggregate	_____
$2,000,000 each occurrence, $2,000,000 aggregate	_____
$3,000, 000 each occurrence, $2,000,000 aggregate	_____
$4,000, 000 each occurrence, $2,000,000 aggregate	_____
$5,000, 000 each occurrence, $2,000,000 aggregate	_____

Quote additional limits beyond $5,000,000, as available. Separate excess coverage to provide additional limits is acceptable. If you quote umbrella that applies over public officials' liability coverage, you need quote only $1,000,000 above.

_____
_____
_____
_____
_____

Deductibles

Quote premium reduction (use % or $) for each of the above limits (1m –5m) if the following deductibles are used.

$2,000 1m_____; 2m_____; 3m_____; 4m_____; 5m_____ Not quoted_____
$3,000 1m_____; 2m_____; 3m_____; 4m_____; 5m_____ Not quoted_____
$4,000 1m_____; 2m_____; 3m_____; 4m_____; 5m_____ Not quoted_____
$5,000 1m_____; 2m_____; 3m_____; 4m_____; 5m_____ Not quoted_____

Additional information on limits and deductibles you wish to record

_____
_____
_____
_____
_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – PUBLIC OFFICALS LIABILITY (continued)

Occurrence versus Claims-Made Are you quoting an occurrence form? Yes_____ No_____
Are you quoting a claims-made form? Yes_____ No_____ If claims-made, will you offer full prior acts coverage? Yes_____ No_____ If you will not offer full prior acts coverage, what retroactive date will you offer? Retroactive date_____

Coverage Elements
Will you provide 90 days cancellation notice by the insurer? Yes_____ No_____

Will you attach and **Unintentional Errors and Omissions Endorsement**? (*See general liability bid for & specifications*) Yes_____ No_____
Comment_____

Will you attach a **Delayed Notice of Occurrence Endorsement**? (See *General Liability Bid Form and Specifications* for a description of this endorsement) Yes_____ No_____
Comment_____

Defense expenses paid outside the liability limit? Yes_____ No_____
Comment_____

Pay on Behalf
Is your policy on a **"pay on behalf"** basis rather than an "indemnity" basis? Yes_____
No_____ If No, can you provide **"pay on behalf"** basis for an additional premium? Yes_____
No_____ Additional premium required_____

Will your policy cover elected or appointed officials or members of boards and commissions operating under the jurisdiction of the Village and all full-time and part-time employees of the Village? Yes_____ No_____
List any exceptions_____

Will your policy provide coverage for estates, heirs to legal representative of deceased persons who were employees of the Village, and insured, at the time of the wrongful act? Yes_____
No_____
Exceptions or comments_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – PUBLIC OFFICALS LIABILITY (continued)

Will your policy provide coverage for all living persons who were employees of the Village, and insured, at the time of the wrongful act? Yes_____ No_____
Exceptions or comments_____

Will your policy provide coverage for all volunteers authorized by and working on behalf of the Village? Yes_____ No_____
Comment_____

Does your policy apply the policy deductible to defense expense? Yes_____ No_____ If yes, can you provide coverage that applies the deductible to indemnity only? Yes_____ Additional Premium (if any)_____No, cannot provide_____
Comment_____

Definition of "Wrongful Act" Indicate in your definition of "Wrongful Act", as a minimum, contain the following:
Liability of any insured arising from:

1. Actual or alleged negligence Yes_____ No_____
2. Errors or omissions Yes_____ No_____
3. Breaches of duty Yes_____ No_____
4. Misfeasance, malfeasance and nonfeasance Yes_____ No_____

List and explain any exceptions or additions to the above list.

Exclusions If your policy contains any of the following exclusions, please advise if you will remove them:

1. Violation of civil rights exclusion. Will remove_____ Cannot remove_____
2. Punitive Damages exclusion. Will remove_____ Cannot remove_____
3. Exclusion of claims against Village employed attorneys, architects, medical personnel, engineers, etc. acting within the scope of their professional duties. Will remove_____ Cannot remove_____
4. Exclusion of injunctive or nonmonetary claims. Will remove_____ Cannot remove_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – PUBLIC OFFICALS LIABILITY (continued)

Exclusions (continued)

5. Faulty preparation of bid specifications exclusion. Will remove_____ Can not remove_____
6. Failure to maintain insurance exclusion. Will remove_____ Can not remove_____ Comment (list any additional premiums required for the above exclusion removals)

_____
_____
_____
_____
_____

Other information is attached to these specifications. Loss experience regarding the Public Official insurance is included in appendix B. Additional information needed to complete a bid is available from Kevin Grippi, Village Administrator. Any applications that need to be completed should be forwarded to Kevin Grippi, Village Administrator, 2500 Hayford Road, P.O. Box 237, Roaming Shores, Ohio 45014.

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – POLICE PROFESSIONAL LIABILITY

Limits of Liability

Quote the following limits:

Limits	**Premium**
Quote $1,000 deductible	
$1,000,000 each occurrence, $1,000,000 aggregate	_____
$2,000,000 each occurrence, $2,000,000 aggregate	_____
$3,000, 000 each occurrence, $2,000,000 aggregate	_____
$4,000, 000 each occurrence, $2,000,000 aggregate	_____
$5,000, 000 each occurrence, $2,000,000 aggregate	_____

Quote additional limits beyond $5,000,000, as available. Separate excess coverage to provide additional limits is acceptable. If you quote umbrella that applies over public officials' liability coverage, you need quote only $1,000,000 above.

_____
_____
_____
_____
_____

Deductibles

Quote premium reduction (use % or $) for each of the above limits (1m –5m) if the following deductibles are used.

$2,000 1m_____; 2m_____; 3m_____; 4m_____; 5m_____ Not quoted_____
$3,000 1m_____; 2m_____; 3m_____; 4m_____; 5m_____ Not quoted_____
$4,000 1m_____; 2m_____; 3m_____; 4m_____; 5m_____ Not quoted_____
$5,000 1m_____; 2m_____; 3m_____; 4m_____; 5m_____ Not quoted_____

Additional information on limits and deductibles you wish to record

_____
_____
_____
_____
_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – POLICE PROFESSIONAL LIABILITY (continued)

The policy is to cover all sworn police officers, civilian personnel and any auxiliary police officers employed by the Village of Roaming Shores Police Department.

Occurrence versus Claims-Made Are you quoting an occurrence form? Yes_____ No_____ Are you quoting a claims-made form? Yes_____ No_____ If claims-made, will you offer full prior acts coverage? Yes_____ No_____ If you will not offer full prior acts coverage, what retroactive date will you offer? Retroactive date_____

The named insured under this policy is to be the "The Village of Roaming Shores Police Department and The Village of Roaming Shores".

Other information is attached to these specifications. Loss experience regarding the Public Official insurance is included in Appendix B. Additional information needed to complete a bid is available from Kevin Grippi, Village Administrator. Any applications that need to be completed should be forwarded to Kevin Grippi, Village Administrator, 2500 Hayford Road, P.O. Box 237, Roaming Shores, Ohio 45014.

Coverage Elements

Will you include as insureds:

1. All current, all past or all future full or part-time law enforcement officers and employees of the Village's police department? Yes_____ No_____
2. Public officials and employees of the Village in furtherance of the pursuits of the police department? Yes_____ No_____
3. Volunteer and part-time workers in the police department? Yes_____ No_____
4. Heirs, estates, executors, administrators, legal representatives, and assigns of all persons in 1, 2 and 3, in the event of death, bankruptcy or incompetence? Yes_____ No_____

Mutual Agreements

Law enforcement mutual aid agreements covered? Yes_____ No_____
Comment_____

_____

Premises

Bodily injury and property damage out of the police department premises and the ways adjoining.

_____

_____

"Moonlighting" coverage (describes or attach relevant policy provision)

_____

_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – POLICE PROFESSIONAL LIABILITY (continued)

Punitive damages (if allowed) covered_____
_____

Will you provide **90 days cancellation notice** by the insurer? Yes_____ No_____

Will you attach an Unintentional Errors and Omissions Endorsement (*See general liability bid for & specifications*) Yes_____ No_____
Comment_____
_____

Will you attach a **Delayed Notice of Occurrence Endorsement**? (See *General Liability Bid Form and Specifications* for a description of this endorsement) Yes_____ No_____
Comment_____
_____

Defense expenses paid outside the liability limit? Yes_____ No_____
If No Comment_____
_____

Pay on Behalf
Is your policy on a **"pay on behalf"** basis rather than an "indemnity" basis? Yes_____
No_____ If No, can you provide **"pay on behalf"** basis for an additional premium?
Yes_____ No_____ Additional premium required_____

Does your policy apply the policy deductible to defense expenses? Yes_____ No_____
If yes, can you provide coverage that applies the deductible to indemnity only? Yes_____
Additional premium (if any)_____ No, cannot provide_____
Comment_____
_____

Perils
Indicate which of the following listed perils are covered under your policy:
1. False arrest, detention, or imprisonment Yes_____ No_____
2. Malicious prosecution Yes_____ No_____
3. Wrongful entry, eviction or other invasion of the right of private occupancy Yes_____ No_____
4. Discrimination Yes_____ No_____
5. Humiliation Yes_____ No_____
6. Libel or slander Yes_____ No_____
7. Assault or battery Yes_____ No_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – POLICE PROFESSIONAL LIABILITY (continued)

Perils (continued)

8. First aid E&O Yes_____ No_____
9. False or improper service of process Yes_____ No_____
10. Violation of property rights Yes_____ No_____
11. Violation of civil rights Yes_____ No_____
12. Alleged criminal acts Yes_____ No_____

Comments

_____
_____
_____
_____

Comments and additional items proposed

_____
_____
_____
_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS –
AUTOMOBILE LIABILITY/PHYSICAL DAMAGE

Please quote the following limits and deductibles. If you are quoting Umbrella Liability you need only quote a $1,000,000 Automobile Liability limit.

Automobile Liability, Combined Single Limit (Quote Symbol 1)	**Premium**
$1,000,000	_____
$2,000,000	_____
$3,000, 000	_____
$5,000, 000	_____

Medical Payments (Quote Symbol 2)	
$3,000	_____
$5,000	_____
$10,000	_____

Uninsured Motorist & Underinsured Motorist (Quote Combined Single Limit. If Split Limits, see below) (Quote Symbol 3)	
$10,000	_____
$20,000	_____
$30,000	_____
$60,000	_____
$100,000	_____
$300,000	_____
$500,000	_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS –
AUTOMOBILE LIABILITY/PHYSICAL DAMAGE (continued)

Uninsured Motorist & Underinsured Motorist (continued)
If you quote **Uninsured Motorist** split limits, please indicate split

Amounts_____

_____

_____

Physical Damage	**Premium**
Comprehensive Coverage	
Deductibles	
$100	_____
$250	_____
$500	_____
$1,000	_____
$2,000	_____
Collision Coverage	
Deductibles	
$100	_____
$250	_____
$500	_____
$1,000	_____
$2,000	_____

NOTE: Your quote should exclude the Fire Department Liability. The Village's fire and ambulance service is provided by townships.

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS –
AUTOMOBILE LIABILITY/PHYSICAL DAMAGE (continued)

Cost per Vehicle Composite
Using the number of vehicles listed in the information included in Appendix A and assuming a 1m liability limit, $500 deductible comprehensive and collision and no medical payments or uninsured motorist coverage, calculate your quoted cost per vehicle.
Cost per Vehicle_____

Indicate whether quotation includes the following:
Coverage Form? Is your coverage as broad as ISO Business Auto form (CA 00 01)?
Yes_____ No_____ If you are using a pre-12/1990 form, please include coverage for "covered pollution cost or expense"

Contractual Liability Coverage should include coverage for liability assumed in a car rental or lease except in the case of autos hired with drivers. Does your form provide car rental contractual liability coverage? Yes_____ No_____

Employees as Insured Endorsement? Yes_____ No_____
Village coverage under this endorsement will apply as primary insurance? Yes_____ No_____
Village coverage under this endorsement will apply in excess insurance? Yes_____ No_____
Additional premium, if applies as primary? Yes_____ No_____ If yes what will be the amount of the premium? $_____ Any special rules if applies as primary insurance such as permission to use the auto on Village business? If so, please describe.
_____
_____

Non-ownership Liability? Yes_____ No_____

Broad Named Insured Endorsement? Yes_____ No_____

90 Day Notice of Insurer Cancellation? Yes_____ No_____

Will you attach a **Delayed Notice of Occurrence Endorsement**? (See *General Liability Bid Form and Specifications* for a description of this endorsement) Yes_____ No_____
Comment_____
_____

Fellow Employee Exclusion Deleted? Yes_____ No_____
Comment_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS –
AUTOMOBILE LIABILITY/PHYSICAL DAMAGE (continued)

Aggregate or Cap on Number of Deductibles Assessed under Comprehensive Coverage in Any One Incident? Yes_____ No_____ If available, additional premium required? Yes_____ No_____ Amount of additional premium $_____
Comment_____

Sound or Receiving Equipment Coverage – Police Vehicles? Yes_____ No_____ If yes, will you extend coverage for other sound equipment installed in other Village vehicles? Yes_____ No_____
Comment_____

Pay deductible under Physical Damage Insurance on Volunteers' or Employees' Personal Autos Coverage when they are involved in an emergency? Yes_____ No_____
Maximum amount paid $_____
Comment_____
_____

Freezing Coverage – Emergency Vehicles/Equipment? Yes_____ No_____
Comment_____

Loss Control Programs briefly describe the auto fleet loss control program the insurer will offer the Village .

_____
_____
_____
_____

Additional Comments or Quotations

_____
_____
_____
_____
_____
_____
_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – EMPLOYMENT PRACTICES LIABILITY

Please provide quotation of Employment Practices Liability coverage. This can be a stand-alone coverage or it can be quoted as a coverage part of the General Liability or Public Officials Liability quotation. *In any event, the premium must be quoted separately for this coverage*.

Quote the following limits using a $2,500, $5,000, $25,000 and $50,000 deductibles:

Limits	**Premium ($2,500)**	**Premium ($5,000)**	**Premium ($25,000)**	**Premium ($50,000)**
$1,000,000	_____	_____	_____	_____
$2,000,000	_____	_____	_____	_____
$3,000,000	_____	_____	_____	_____

Other Deductibles:
List other deductibles and limits you wish to quote

_____

_____

Does your proposed form cover liability

1. Arising from ADA? Yes_____ No_____

2. Arising from the following specific causes:
   - discrimination against individuals? Yes_____ No_____
   - failure to hire? Yes_____ No_____
   - failure to promote? Yes_____ No_____
   - wrongful termination? Yes_____ No_____
   - wrongful termination of career opportunity? Yes_____ No_____
   - sexual harassment? Yes_____ No_____
   - breach of employment contract? Yes_____ No_____
   - employment-related defamation? Yes_____ No_____
   - employment-related misrepresentation? Yes_____ No_____
   - negligent evaluation? Yes_____ No_____
   - wrongful infliction of emotional distress? Yes_____ No_____
   - back wages covered? Yes_____ No_____
   - non-monetary damages covered? Yes_____ No_____

Comments on above items

_____

_____

_____

_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – UMBRELLA LIABILITY

Quote the following limits. **Assume underlying or primary coverage with $1,000,000 limits for general liability, employee benefits liability, stop gap liability, automobile liability, police professional, employment practices liability, and public officials liability coverage.** If you require different underlying limits, please advise in comment section below. If your proposed policy cannot apply over any of the listed coverage, please list in the comment section below.

Comments_____

Limit	**Premium**
$1,000,000	_____
$2,000,000	_____
$3,000,000	_____
$5,000,000	_____
$10,000,000	_____
$15,000,000	_____
$20,000,000	_____

Quotations ***must*** be submitted for each liability limit.

If you are using different insurers for upper limits (i.e. above $5m), list those insurers here.

If your quote above $5m is based on a per million rate, indicate that rate. If the rate changes at any limit above $5m, please list the limit and rate where the change occurs.

Indicate whether your quotation provides the following (you need not answer these questions if you listed underlying coverage above over which your policy will not apply)

Applies over General Liability $1m underlying? Yes_____ No _____
Comment_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – UMBRELLA LIABILITY (continued)

Applies over **Employer Stop Gap Liability** $1m underlying? Yes_____ No _____
Comment_____

Applies over **Employee Benefit Liability** $1m underlying? Yes_____ No _____
Comment_____

Applies over **Public Officials Liability** $1m underlying? Yes_____ No _____
Comment_____

Applies over **Employment Practices Liability** $1m underlying? Yes_____ No _____
Comment_____

Applies over **Police Professional Liability** $1m underlying? Yes_____ No _____
Comment_____

Retentions
Self-Insured Retention $_____
Will you waive the self-insured retention $1m underlying? Yes_____ No _____
Comment_____

Aggregate Limit $_____

Pay on behalf of insured? Yes_____ No _____
Comment_____

Occurrence rather than claims-made coverage? Yes_____ No _____
If claims-made, retroactive date_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – UMBRELLA LIABILITY (continued)

Is your form a **Follow Form**? Yes_____ No _____ If it is not, will you provide an endorsement that states that the umbrella coverage is no more restrictive than is provided by the terms and conditions of the underlying polices? Yes_____ No _____
Comment_____

_____

Broad Named Insured Endorsement? Yes_____ No _____
Comment_____

_____

First Dollar Defense when no Underlying Policy Covers a Claim to which this Policy will Respond? Yes_____ No _____
Comment_____

_____

Delayed Notice of Occurrence Endorsement Included? (See *General Liability Bid Form and Specifications* for a description of this endorsement) Yes_____ No_____
Comment_____

_____

Unintentional Hazard Disclosure Endorsement Included? (See *General Liability Bid Form and Specifications* for a description of this endorsement) Yes_____ No_____
Comment_____

_____

90 Day Notice of Insurer Cancellation? Yes_____ No_____
Comment_____

_____

Fellow Employee Exclusion Made Inapplicable (if made inapplicable by the underlying policy)? Yes_____ No_____ If this is not possible, will you amend your exclusion to provide coverage for supervisor personnel and executive personnel? Yes_____ No_____
Comment_____

_____

Coverage for Volunteers? Yes_____ No_____
Comment_____

_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – UMBRELLA LIABILITY (continued)

General Comments:

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – PROPERTY INSURANCE

Please provide property insurance quotations as follows.

Blanket replacement cost on all buildings and contents, including improvements and betterment's, agreed amount, 90% or 100% coinsurance, blanket all locations, per schedule of values and locations included in Appendix A, indicating a building and contents limit of **$13,000,000.**

Deductibles:	**90% Coinsurance Premium**	**100% Coinsurance Premium**
$1,000	_____	_____
$5,000	_____	_____
$10,000	_____	_____
$20,000	_____	_____

Perils, *All Risks of Direct Physical Loss* (causes of loss, special form)

Does your proposed property insurance form include the following?

A Property Extension form that Increases Certain Coverage under the Building and Contents Form? Yes_____ (Additional Premium (if any) $_____ It is mandatory that you include a copy of the extension form.) No_____ If you do not provide a property extension form, can you increase certain coverage usually provided by a "Property Extension Form" by endorsement? Yes_____ No_____ If yes, describe them here.

_____
_____
_____
_____
_____
_____
_____
_____

Coverage for Property at Unscheduled Locations? Yes_____ No_____
Limit (if any)$_____

Property in Transit? Yes_____ No_____ Limit (if any)$_____

Newly Acquired Locations of Real Property? Yes_____ No_____
Limit (if any)$_____

Personal Property? Yes_____ No_____ Limit (if any)$_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – PROPERTY INSURANCE (continued)

Inflation Value Increased Annually? Yes_____ (Annual Percentage_____) No_____ If Yes, Additional Premium? Yes_____ Amount $_____
Remarks_____

Covered Property. Please indicate if the following will be covered. Indicate limits.

	Yes	No	Limits (if less than building or contents limit)
Property in the Open			
Personal Property			
Employees Property			
Indoor and Outdoor Signs			
Building Glass			
Fences			
Light Standards			
Engineer/Architect Fees			
Sub-Flooring and Below Grad Walls			
TV and Radio Antennas			
Foundations, Dams, Spillways and other Underground Property			
Retaining Was not a Part of Building			
Land Excavations, Grading, Filling			
Underground Pipes, Flues or Drains			
Lawns, Ties, Shrubs, Plants			
Patios, Driveways, Roadways, & Other Paved Surfaces			
Back up of Sewers or Drains			*

***** Can this limit be increased? Yes_____ (Amount $_____, Additional Premium $_____) No_____ Remarks_____

Rating
Please record here the rate per $100 of coverage that you are using for building coverage and the rate per $100 coverage that you are using for contents coverage. If you are using a combined or blanket average, record that here. Rate, building coverage _____ Rate, contents coverage _____ Combined or blanket average rate _____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – PROPERTY INSURANCE (continued)

Building Ordinance and Law Coverage
Please quote coverage for loss due to building laws or ordinances. See list of buildings, included in Appendix A.

Limits	**Premium**
$1,000,000	_____

Does Your Building Ordinance and Law Form include:

Provisions for a **Blanket Limit**? Yes_____ No_____
Comment_____
_____

Provisions for the **Increased Cost of Construction Resulting from ADA** (American Disabilities Act)? Yes_____ No_____
Comment_____
_____

Provisions for the **Repair or Construction of:**
The cost of Excavations, Grading, Backfilling and Filling
Foundations of Buildings
Pilings
Underground Flues, Pipes and Drains
Yes_____ No_____
Comment (list any not covered)_____
_____

Glass
Include all glass within the definition of "building" in your property form with a no per pane limit. Include all glazing and special lettering.

If your form does not provide full glass coverage on an all-risk basis, please provide coverage for all building plate glass, then please quote the following deductibles per event.

Deductibles	**Premium**
$100	_____
$500	_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – PROPERTY INSURANCE (continued)

Inland Marine

Contractors Equipment

Please provide a quotation for equipment that is moved from location to location. This equipment is detailed in the list included in Appendix A. Actual cash value coverage is desired.

Deductibles	**Premium**
$50	_____
$100	_____
$250	_____
$500	_____
$1,000	_____

Other Equipment

Blanket Antennas and Towers per the list included in Appendix A.

Deductibles	**Premium**
$50	_____
$100	_____
$250	_____
$500	_____
$1,000	_____

Does Your Coverage Form Provide *With Respect to the Above Coverage* the following features? (Please list coverage and response):

Deductible Application on a **Per Item Basis, Direct Damage**? Yes_____ No_____
Applicable to which coverage?_____

Deductible on a **Per Occurrence Basis, Direct Damage**? Yes_____ No_____ Applicable to which coverage?_____

90 Day Notice of Insurance Cancellation? Yes_____ No_____
Applicable to which coverage?_____

Can you provide **Replacement Cost Coverage**? Yes_____ No_____ Additional Premium (if any) $_____
Applicable to which coverage?_____

Perils to be Insured in this Inland Marine Coverage: *All Risks of Direct Physical Loss, including Earthquake and Dam Failure.*
Remarks_____
_____
_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – PROPERTY INSURANCE (continued)

Earthquake

Quote all real and personal property for the peril of earthquake. DIC is acceptable. Include sample policy from and information on deductible application. ***Keep quote separate from above quote on real and personal property***. If proposed deductible is on a percentage basis, list available percentage deductibles. If deductible is on a dollar basis, list available dollar deductibles.

Deductibles	**Premium**
_____	_____
_____	_____
_____	_____

If you are quoting ***less*** than full property values for earthquake coverage, please list the values you are quoting

_____

_____

Boiler and Machinery

Quote comprehensive blanket coverage on all boilers and fired and unfired pressure vessels, motors, switch gears, all reciprocating compressors 10 h.p. and smaller at locations, per the schedules of equipment and locations in Appendix A. Include all air conditioning units. Insure to full property value. **If you are not insuring to full property values, please list the value you are using.** If you are including sub-limits for certain events in the boiler policy, please record them below. The Village boiler & machinery items are listed in Appendix A.

Do you agree that if you write this coverage that the insurer you use will provide an inspection of all steam boilers annually and of all hot water boilers at least every three years?
Yes_____ No_____
Comments_____

Property Values you are using, if not full property values:
Values:_____

_____

Policy Sub-Limits, if any:
Sub-limit_____Amount $_____
Sub-limit_____Amount $_____
Sub-limit_____Amount $_____
Sub-limit_____Amount $_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – PROPERTY INSURANCE (continued)

Boiler and Machinery (continued)

Expediting Expense Limit $_____

_____

Boiler and Machinery Deductibles

Deductibles	**Premium**
$500	_____
$1,000	_____
$5,000	_____

Please list any other deductibles applicable to business interruption, water damage, contamination, expediting expense, etc.

_____
_____
_____
_____

Valuable Papers Coverage
Please quote blanket valuable papers coverage to apply at all locations.

Limits	**Premium**
$50,000	_____
$100,000	_____
$200,000	_____
$300,000	_____
$500,000	_____

Perils to be insured: *All Risks of Direct Physical Loss, including Earthquake*

Please indicate whether your proposed property form includes the following:
Coverage for property of others Yes_____ No_____ Limit (if any) $_____

Valuation of replaceable items at the cost to research and reconstruct lost information and to recreate the documents, plus the cost of blank materials and transcribing expense others
Yes_____ No_____ Limit (if any) $_____

90 day notice of insurer cancellation others Yes_____ No_____ Limit (if any)
$_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID FORM & SPECIFICATIONS – PROPERTY INSURANCE (continued)

Extra Expense

Please quote extra expense coverage. Base your quote as applying blanket to all locations

Limits	**Premium**
$50,000	_____
$100,000	_____
$200,000	_____
$300,000	_____
$500,000	_____

Additional comments on property coverage you wish to make. Include any special features on the forms and coverage you quoted.

_____
_____
_____
_____
_____
_____
_____
_____

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we _____
(herein after called the Principal) as, a_____, a corporation organized under the laws of the State of _____with its principal office in the Village of _____, (hereinafter called Surety) and licensed to do business in the State of _____ as Surety, are held and firmly bound unto the Village of Roaming Shores, Ohio, (hereinafter called the Obligee) in the penal sum of _____ _____Dollars ($_____) lawful money of the United States for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns.

THE CONDITIONS OF THIS OBLIGATION IS SUCH, That whereas, the Principal has submitted the accompanying bid, dated _____, 20_____, for _____ _____.

NOW THEREFORE, If the Obligee shall make any award according to the terms of said Bid and the Principal shall enter into a Contract with said Obligee in accordance with the terms of said Bid and give Bond for the faithful performance thereof within the time specified; or if no time is specified, within thirty days after the date of award; or if the Principal shall in the case of failure to do so, indemnify the Obligees against any loss the Obligee may suffer directly arising by reason of such failure, not exceeding the penalty of this Bond, then this obligation shall be null and void: otherwise, to remain in full force and virtue.

Signed and sealed and dated this _____ day of _____, 20___.

_____
Principal

By: _____

_____
Surety

By: _____

Attorney-in-Fact

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
NON-COLLUSION AFFIDAVIT

State of Ohio, County of Ashtabula
Village of Roaming Shores

_____,
(Name of Individual)

_____,
(Company Representing)

BEING DULY SWORN, DOES DEPOSE AND SAY THAT (HE, THEY) RESIDE AT

_____,
(Resident Address)

AND THAT (HE IS, THEY ARE) THE ONLY PERSON(S) WITH SAID

_____,
(Name of Company)

_____,
(Company Address)

INTERESTED IN THE PROFITS OF THE PROPOSED CONTRACT FOR THIS PROJECT: THAT THE SAID CONTRACT IS MADE WITHOUT ANY CONNECTION OR COMMON INTEREST IN THE PROFITS, THEREOF, WITH ANY PERSON MAKING ANY BID OR PROPOSAL FOR SAID WORK: THAT THE SAID CONTRACT IS ON THEIR PART, IN ALL RESPECTS, FAIR AND WITHOUT COLLUSION OF FRAUD: AND, ALSO, THAT NO MEMBER OF COUNCIL, HEAD OF ANY DEPARTMENT OR BUREAU, OR EMPLOYEE THEREIN, OR ANY OFFICER OR EMPLOYEE OF THE VILLAGE OF ROAMING SHORES, OHIO, IS DIRECTLY OR INDIRECTLY INTERESTED THEREIN.

SUBSCRIBED TO AND SWORN TO THIS _____DAY OF_____, 20_____.

_____
Signature

_____
Title

_____ _____
Notary Public Company

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
AFFIDAVIT OF CONTRACTOR OR SUPPLIER OF NON-DELINQUENCY
OF PERSONAL PROPERTY TAXES AND VILLAGE OF ROAMING SHORES INCOME TAXES
O.R.C. 5919.042

STATE OF OHIO:

TO: Village of Roaming Shores, Ohio
Ashtabula County, Ohio

The undersigned, being first duly sworn, having been awarded a contract by the Village of Roaming Shores for

_____

_____

hereby states that we are not charged at the time the bid was submitted with any delinquent personal property taxes on the general tax list of personal property of any county in which as a taxing district have territory and that we were not charged with delinquent personal property taxes on any such tax list. Furthermore, we state that we are not delinquent for Income Tax owed to the Village of Roaming Shores.

In consideration of the award of the above contract, the above statement is incorporated in said contract as a covenant of the undersigned.

_____
Signature

_____
Title

_____
Company

Sworn to before me and subscribed in my presence this ____day of _____20____.

_____
Notary Public

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
APPENDIX A: DESCRIPTIONS OF, LOCATIONS
AND VALUES OF PROPERTY

Buildings & Real Property

Administration

1. New Village Hall- Masonry - 1 Story
   2500 Hayford Road $900,000
   Contents..... $75,000

Public Works

1. Waste Water Treatment Plant Building
   Rome Rock Creek Road..... $100,000
   Contents..... $500,000

2. Water Department Chlorination Building – 2500 Hayford. $15,000
   Contents..... $20,000

3. Filter / Ultra Violet Treatment Building..... $250,000

4. Digester Pump House..... $50,000

5. Water Tower..... $500,000

7. Clarifiers $1,000,000
   Secondary (6), Primary (6) and Equipment

8. Aeration Tanks $1,100,000

9. Light Poles $20,000

10. Fencing and Miscellaneous Outside Building $50,000

11. 1 East Lift Station..... $25,000

12. 1 West Lift Station $25,000

13. 2 East Lift Station $50,000

14. 2 West Lift Station $50,000

15. 3 East Lift Station $25,000

16. 3 West Lift Station $25,000

17. 4 East Lift Station $25,000

18. 4 West Lift Station $25,000

19. 5 East Lift Station $25,000

20. 5 West Lift Station $25,000

21. 6 East Lift Station $25,000

22. 6 West Lift Station $25,000

23. 7 East Lift Station $25,000

24. 7 West Lift Station $25,000

25. 8 East Lift Station $25,000

26. 8 West Lift Station $25,000

27. 9 East Lift Station $75,000

28. 9 West Lift Station $25,000

29. 10 East Lift Station $75,000

30. 10 West Lift Station $75,000

31. 11 East Lift Station $75,000

32. 11 West Lift Station $75,000

33. 12 East Lift Station $75,000

34. 12 West Lift Station $75,000

35. 13 East Lift Station $75,000

36. 13 West Lift Station $75,000

37. 14 East Lift Station $75,000

38. 14 West Lift Station $75,000

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
APPENDIX A: DESCRIPTIONS OF, LOCATIONS
AND VALUES OF PROPERTY (continued)

Boiler/Machinery

1 Boiler / HVAC System (Municipal Building, 2500 Hayford Road) $50,000

3 Boilers Wastewater Plant @ $4,000 ea.(Rome Rock Creek Road)
Resnors $12,000

Radio and Communication Equipment

Radio Equipment, Antenna & Building at Water Tower.....$2,500
Radio Equipment, Antenna & Building at Chlorination Building.....$2,500

Dam, Spillway and Appurtances

800' Earthen and Concrete Dam.....$6,000,000
Emergency Spillway.....$1,000,000

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
APPENDIX A: DESCRIPTIONS OF, LOCATIONS
AND VALUES OF PROPERTY (continued)

Other Miscellaneous Property Coverage

1 Defibrillator Unit @ $1,500 ($500 Deductible) ……..$1,500
3 Mobile Data Terminals @ $2,500 Each ($500 Deductible) ……..$7,500
Police equipment……..….$20,000
A $50,000 limit for rented, borrowed, and leased equipment.

AUTOMOTIVE EQUIPMENT

One– 2003 Crown Victoria's in service, but will be decommissioned in November……..$5,000

One– 2002 Crown Victoria's in service, but will be decommissioned in November……..$4,000

Two - 2012 Ford Escape at $30K ea. (4x4) to be in service in November……...$60,000

One – 1997 F350 Plow Truck……..$25,000

One – 1997 Ford Ranger Truck……..…$15,000

One- 1998 Chevy 1-ton Utility Truck……..…$20,000

HEAVY EQUIPMENT

New Holland Back Hoe……$12,000

Attachment: Loss history & 2011 Inventory

VILLAGE OF ROAMING SHORES
INSURANCE – PROPERTY / CASUALTY INSURANCE PROGRAM
APPENDIX C: VILLAGE OF ROAMING SHORES FACTS AND MISCELLANEOUS INFORMATION

Date of Incorporation 1979
Population 1,509
Form of Government ..... Council/Village Mayor

Municipal Area ..... 2.8 square miles

Public Works Department:
- Public Lane Miles of Streets 1.5
- Total Miles of Streets (Public & Private) 27
- Number of Street Lights 4
- Number of Traffic Lights 0

Fire Protection:
- Number of Stations 0
- Number of Firemen and Officers 0
- Number of Part-Time Firemen 0
- Number of Paramedic Units 0

Police Protection:
- Number of Stations 1
- Number of Full-Time Police Officers 2

Public Utility Department:
- Number of Customers 875
- Average Daily Consumption of Water ..... 110,000 gdp
- Miles of Water Lines 27
- Miles of Sewer Lines 15
- Waste Water Lift Stations 28

Recreation and Cultural:
- Home Owner's Association 1
- 550 Acre Private Lake 1
- Number of Association Owned Recreation Lots 59
- Number of Libraries 0
- Number of Holdings ..... 4 acres

Employees:
- Full-time 6
- Part-time 4

HAS Claims Service

****

Name: Roaming Shores, Village of - Ashtabula

Claim Number	Description	Occurrence Date	Date Closed	Expense Reserve	Expense Payment	Expense Incurred	Loss Reserve	Loss Payment	Loss Incurred	Total Reserve	Recoveries	Total Incurred
OHA9113	SEWER BACKUP											
Status: Closed		1/11/93	3/24/93	0.00	0.00	0.00	0.00	1,000.00	1,000.00	0.00	0.00	1,000.00
Claimant:	Type: Property - Building											
OHA9608	SEWER BACKUP-ETHEL SUMMERS											
Status: Closed		4/26/93	6/25/93	0.00	0.00	0.00	0.00	250.00	250.00	0.00	0.00	250.00
Claimant: Ethel Summers	Type: Property - Building											
Totals for Policy Effective Date: 7/1/92	No. Claims: 2			0.00	0.00	0.00	0.00	1,250.00	1,250.00	0.00	0.00	1,250.00
OHA10985	VANDALISM TO SIGN											
Status: Closed		10/22/93	12/20/93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Claimant: Village of Roaming Shores	Type: Inland Marine - Specifically Listed Equipment											
OHA11277	SEWER BACKUP/CALLAHAN											
Status: Closed		12/9/93	2/7/94	0.00	533.50	533.50	0.00	1,000.00	1,000.00	0.00	0.00	1,533.50
Claimant: Village of Roaming Shores	Type: Property - Building											
OHA12848	SWR BACKUP-PROPERTY DAMAGE/BARTNUNEK											
Status: Closed		6/15/94	7/27/94	0.00	562.05	562.05	0.00	1,000.00	1,000.00	0.00	0.00	1,562.05
Claimant: Bartnunek	Type: Property - Building											
OHA13035	PROPERTY DMG FROM SWR BACKUP/SHAEFFER											
Status: Closed		7/8/94	3/25/96	0.00	1,056.93	1,056.93	0.00	0.00	0.00	0.00	0.00	1,056.93
Claimant: Shaeffer	Type: General Liability - General Liability - BI											
OHA13044	PROPERTY DMG FROM SWR BACKUP/BARTUNEK											
Status: Closed		7/7/94	10/28/94	0.00	619.00	619.00	0.00	1,000.00	1,000.00	0.00	0.00	1,619.00
Claimant: Bartunek	Type: Property - Building											
OHA13316	SEWER BACKUP/JELENIC											
Status: Closed		7/7/94	8/11/94	0.00	0.00	0.00	0.00	500.00	500.00	0.00	0.00	500.00
Claimant: Jelenic	Type: Property - Building											
OHA14446	SEWER BACK UP - MORRISSEY, BRUCE											
Status: Closed		1/28/94	5/2/95	0.00	464.00	464.00	0.00	1,344.30	1,344.30	0.00	0.00	1,808.30
Claimant: Bruce Morrissey	Type: Property - Building											

Name: Roaming Shores, Village of - Ashtabula

Claim Number	Description	Occurrence Date	Date Closed	Expense Reserve	Expense Payment	Expense Incurred	Loss Reserve	Loss Payment	Loss Incurred	Total Reserve	Recoveries	Total Incurred
Totals for Policy Effective Date: 9/1/93	No. Claims: 7			0.00	3,235.48	3,235.48	0.00	4,844.30	4,844.30	0.00	0.00	8,079.78
OH1050024-C008	Water leaked at meter damaging insulation and electric											
Status: Closed		8/10/95	11/21/95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Claimant: O'Keefe	Type: General Liability - General Liability - BI											
OH1050024-C009	Sewer back-up											
Status: Closed		7/27/95	9/23/95	0.00	0.00	0.00	0.00	1,204.52	1,204.52	0.00	0.00	1,204.52
Claimant: Dave Krzynowek	Type: General Liability - General Liability - BI											
OH1050024-C010	SUIT - Sewer back-up											
Status: Closed		8/14/95	1/23/98	0.00	1,429.80	1,429.80	0.00	6,459.68	6,459.68	0.00	0.00	7,889.48
Claimant: Ricahrd Bartutnik	Type: General Liability - General Liability - BI											
OH1050024-C999	Insured's lift station control circuit failed and stopped pu											
Status: Closed		2/12/95	3/27/95	0.00	0.00	0.00	0.00	153.70	153.70	0.00	0.00	153.70
Claimant: Angelo Gianno	Type: General Liability - General Liability - BI											
Totals for Policy Effective Date: 10/3/94	No. Claims: 4			0.00	1,429.80	1,429.80	0.00	7,817.90	7,817.90	0.00	0.00	9,247.70
OH1050024-C011	I/V slid off road and hit a tree											
Status: Closed		2/7/96	2/13/96	0.00	0.00	0.00	0.00	1,094.74	1,094.74	0.00	0.00	1,094.74
Claimant: Village of Roaming Shores	Type: Auto Physical Damage - Collision											
OH1050024-C012	Sewer back up											
Status: Closed		1/19/96	2/19/96	0.00	0.00	0.00	0.00	250.00	250.00	0.00	0.00	250.00
Claimant: Allen & Helen Kirlough	Type: General Liability - General Liability - BI											
OH1050024-C013	Insured vehicle hit stop sign											
Status: Closed		7/4/96	7/19/96	0.00	0.00	0.00	0.00	371.38	371.38	0.00	0.00	371.38
Claimant: Village of Roaming Shores	Type: Auto Physical Damage - Collision											
Totals for Policy Effective Date: 9/1/95	No. Claims: 3			0.00	0.00	0.00	0.00	1,716.12	1,716.12	0.00	0.00	1,716.12
OH1050024-C014	Insured vehicle hit deer											
Status: Closed		9/27/96	10/11/96	0.00	0.00	0.00	0.00	1,077.62	1,077.62	0.00	0.00	1,077.62
Claimant: Village of Roaming Shores	Type: Auto Physical Damage - Comprehensive											
OH1050024-C015	Water backed up into claimant's basement											
Status: Closed		1/11/97	8/25/97	0.00	129.64	129.64	0.00	1,291.08	1,291.08	0.00	1,000.00	420.72
Claimant: James Sabiers	Type: General Liability - General Liability - BI											

Name: Roaming Shores, Village of - Ashtabula

Claim Number	Description	Occurrence Date	Date Closed	Expense Reserve	Expense Payment	Expense Incurred	Loss Reserve	Loss Payment	Loss Incurred	Total Reserve	Recoveries	Total Incurred
OH1050024-C015A	Sewe water backed up into claimant's basement											
Status: Closed		1/11/97	8/25/97	0.00	129.64	129.64	0.00	2,204.64	2,204.64	0.00	1,000.00	1,334.28
Claimant: Susan Griffin	Type: General Liability - General Liability - BI											
OH1050024-C016	Exess air in sewer line caused damage											
Status: Closed		10/3/96	3/21/97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Claimant: Willaim Ashba	Type: General Liability - General Liability - BI											
OH1050024-C017	Water back up											
Status: Closed		2/27/97	4/25/97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Claimant: Bruce Morrissey	Type: General Liability - General Liability - BI											
OH1050024-C017A	Water back up											
Status: Closed		2/27/97	4/25/97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Claimant: Ralph Ruebel	Type: General Liability - General Liability - BI											
OH1050024-C018	Police Cruiser struck deer											
Status: Closed		4/2/97	6/30/97	0.00	147.50	147.50	0.00	1,075.00	1,075.00	0.00	0.00	1,222.50
Claimant: Village of Roaming Shores	Type: Auto Physical Damage - Comprehensive											
OH1050024-C019	Water backed up in claimant's house											
Status: Closed		6/22/97	8/25/97	0.00	0.00	0.00	0.00	170.18	170.18	0.00	170.18	0.00
Claimant: Merv Toffler	Type: General Liability - General Liability - BI											
OH1050024-C019A	Water backed up into claimant's house											
Status: Closed		6/22/97	8/25/97	0.00	0.00	0.00	0.00	100.00	100.00	0.00	100.00	0.00
Claimant: Bruce & Debbie Boehm	Type: General Liability - General Liability - BI											
OH1050024-C020	SUIT - Wrongful arrest											
Status: Closed		6/26/97	6/14/99	0.00	2,682.50	2,682.50	0.00	0.00	0.00	0.00	1,000.00	1,682.50
Claimant: Richard Ritter	Type: Law Enforcement Liability - Law Enforcement - Personal Injury											
Totals for Policy Effective Date: 9/1/96	No. Claims: 10			0.00	3,089.28	3,089.28	0.00	5,918.52	5,918.52	0.00	3,270.18	5,737.62
OH1050024-C021	Rock broke w/s											
Status: Closed		9/24/98	11/5/98	0.00	0.00	0.00	0.00	91.32	91.32	0.00	0.00	91.32
Claimant: Village of Roaming Shores	Type: Auto Physical Damage - Comprehensive											
OH1050024-C022	Water & sewer backed up into claimant's home											
Status: Closed		5/18/99	8/2/99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Claimant: Marlyn Cantini	Type: General Liability - General Liability - BI											
OH1050024-C023	OV hit IV in parking lot											
Status: Closed		5/14/99	6/4/99	0.00	0.00	0.00	0.00	1,439.51	1,439.51	0.00	0.00	1,439.51
Claimant: Village of Roaming Shores	Type: Auto Physical Damage - Collision											

Name: Roaming Shores, Village of - Ashtabula

Claim Number	Description	Occurrence Date	Date Closed	Expense Reserve	Expense Payment	Expense Incurred	Loss Reserve	Loss Payment	Loss Incurred	Total Reserve	Recoveries	Total Incurred
Totals for Policy Effective Date: 9/1/98	No. Claims: 3			0.00	0.00	0.00	0.00	1,530.83	1,530.83	0.00	0.00	1,530.83
OH1050024-C024	Golf club thrown up by mower											
Status: Closed		09/14/99	9/21/99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Claimant: Angel Mehalic	Type: General Liability - General Liability - BI											
Totals for Policy Effective Date: 9/1/99	No. Claims: 1			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OH1050024-C025	Sewer back-up											
Status: Closed		10/14/2000	11/30/2000	0.00	0.00	0.00	0.00	500.00	500.00	0.00	0.00	500.00
Claimant: Merv & Jane Toffler	Type: General Liability - General Liability - BI											
Totals for Policy Effective Date: 9/1/2000	No. Claims: 1			0.00	0.00	0.00	0.00	500.00	500.00	0.00	0.00	500.00
OH1050024-C026	Sewer back up											
Status: Closed		6/8/2002	6/7/2004	0.00	0.00	0.00	0.00	5,000.00	5,000.00	0.00	0.00	5,000.00
Claimant: Ralph Ruebel	Type: General Liability - General Liability - BI											
Totals for Policy Effective Date: 9/1/2001	No. Claims: 1			0.00	0.00	0.00	0.00	5,000.00	5,000.00	0.00	0.00	5,000.00
OH1050024-C027	IV has cracked windshield-unk cause											
Status: Closed		12/3/2002	12/30/2002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Claimant: Village of Roaming Shores	Type: Auto Physical Damage - Comprehensive											
OH1050024-C028	IV backed into CV											
Status: Closed		6/26/2003	11/7/2003	0.00	110.40	110.40	0.00	1,683.10	1,683.10	0.00	0.00	1,793.50
Claimant: Bradley S. Turner	Type: Auto Liability - Auto Liability - PD											
Totals for Policy Effective Date: 10/01/2002	No. Claims: 2			0.00	110.40	110.40	0.00	1,683.10	1,683.10	0.00	0.00	1,793.50
OH1050024-C029	Flood in clmt's basement											
Status: Closed		6/9/2004	10/20/2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Claimant: Pallows	Type: General Liability - General Liability - PD											
Totals for Policy Effective Date: 10/1/2003	No. Claims: 1			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OH1050024-C030	water backup into basement when vlg had power outage											
Status: Closed		4/3/2005	4/25/2005	0.00	0.00	0.00	0.00	1,000.00	1,000.00	0.00	0.00	1,000.00
Claimant: Marilyn Cantini	Type: General Liability - General Liability - PD											

Name: Roaming Shores, Village of - Ashtabula

Claim Number	Description	Occurrence Date	Date Closed	Expense Reserve	Expense Payment	Expense Incurred	Loss Reserve	Loss Payment	Loss Incurred	Total Reserve	Recoveries	Total Incurred
OH1050024-C030A	water/sewer backup into clmt's home when vlg had power outag											
Status: Closed		4/3/2005	4/25/2005	0.00	0.00	0.00	0.00	2,591.00	2,591.00	0.00	0.00	2,591.00
Claimant: Steve Arsulic	Type: General Liability - General Liability - PD											
OH1050024-C030B	sewage backup into home when vlg power went out, resulting i											
Status: Closed		4/3/2005	4/25/2005	0.00	0.00	0.00	0.00	400.00	400.00	0.00	0.00	400.00
Claimant: Timothy Howard	Type: General Liability - General Liability - PD											
Totals for Policy Effective Date: 10/1/2004	No. Claims: 3			0.00	0.00	0.00	0.00	3,991.00	3,991.00	0.00	0.00	3,991.00
OH1050024-C031	Water back up											
Status: Closed		7/27/2006	10/17/2006	0.00	0.00	0.00	0.00	500.00	500.00	0.00	0.00	500.00
Claimant: Timothy Howard	Type: General Liability - General Liability - PD											
OH1050024-C031A	Water back ups											
Status: Closed		7/27/2006	9/12/2006	0.00	0.00	0.00	0.00	500.00	500.00	0.00	0.00	500.00
Claimant: Mrs. Anton Oblak	Type: General Liability - General Liability - PD											
OH1050024-C031B	Water back ups											
Status: Closed		7/27/2006	10/17/2006	0.00	0.00	0.00	0.00	500.00	500.00	0.00	0.00	500.00
Claimant: Mrs. Al Bozak	Type: General Liability - General Liability - PD											
Totals for Policy Effective Date: 10/1/2005	No. Claims: 3			0.00	0.00	0.00	0.00	1,500.00	1,500.00	0.00	0.00	1,500.00
OH1050024-C032	IV hit a deer											
Status: Closed		5/29/2008	6/16/2008	0.00	0.00	0.00	0.00	1,413.88	1,413.88	0.00	0.00	1,413.88
Claimant: Village of Roaming Shores	Type: Auto Physical Damage - Comprehensive											
OH1050024-C033	sewer backup in basement or crawl space											
Status: Closed		6/7/2008	7/26/2010	0.00	325.00	325.00	0.00	0.00	0.00	0.00	0.00	325.00
Claimant: Bruce Sautter	Type: General Liability - General Liability - PD											
OH1050024-C034	sewer back up											
Status: Closed		7/21/2008	6/10/2011	0.00	10,480.08	10,480.08	0.00	12,500.00	12,500.00	0.00	0.00	22,980.08
Claimant: Jeff Vargo	Type: General Liability - General Liability - PD											
Totals for Policy Effective Date: 10/1/2007	No. Claims: 3			0.00	10,805.08	10,805.08	0.00	13,913.88	13,913.88	0.00	0.00	24,718.96
OH1050024-C501	IV has a cracked w/s											
Status: Closed		1/28/2009	2/27/2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Claimant: Village of Roaming Shores	Type: Auto Physical Damage - Comprehensive											

Name: Roaming Shores, Village of - Ashtabula

Claim Number	Description	Occurrence Date	Date Closed	Expense Reserve	Expense Payment	Expense Incurred	Loss Reserve	Loss Payment	Loss Incurred	Total Reserve	Recoveries	Total Incurred
OH1050024-C502	DEI - OCRC filed claiming that he was terminated due to his											
Status: Closed		9/1/2009	12/21/2010	0.00	2,422.00	2,422.00	0.00	0.00	0.00	0.00	1,000.00	1,422.00
Claimant: Lawrence Pinkert	Type: Public Officials Liability - DEI											
Totals for Policy Effective Date: 10/1/2008	No. Claims: 2			0.00	2,422.00	2,422.00	0.00	0.00	0.00	0.00	1,000.00	1,422.00
Roaming Shores, Village of - Ashtabula												
Number of Claims: 46			**Totals:**	0.00	21,092.04	21,092.04	0.00	49,666	49,665.65	0.00	4,270.18	66,487.51

Village of Roaming Shores

Inventory: Property, Police, Auto, Inland

Record #	Insurance Type	Name	Location / Address	Serial/VIN Model Number Discription	Condition	Year Acquired	# of Units	Per Unit Cost	Replacement Cost
1	Auto	Mobile Engine Generator Set	WWTP	Empire 45 Kw	Good	2009	1	$40,000	$40,000
3	Auto	F350 Truck	WWTP	1FDKF38G1VEB23886	Good	1997	1	$25,000	$25,000
4	Auto	Set of Snow Tires on Rims	WWTP	14"	Good	2009	4	$100	$400
5	Auto	Chevy Utility Truck	WWTP	1GCGK24R8WZ266142	Good	1998	1	$20,000	$20,000
6	Auto	Ranger Truck	WWTP	1FTCR10CR10A1UVD03418	Good	1997	1	$15,000	$15,000
7	Auto	Police Cruiser	WWTP	Ford Crown Victoria	Good	2003	1	$10,000	$10,000
8	Auto	Police Cruiser	Village Hall	Ford Crown Victoria	Good	2002	1	$10,000	$10,000
9	Auto	Police Cruiser	WWTP	Ford Crown Victoria	Poor	2002	1	$6,000	$6,000
10	Auto	20' Deck Over Dual Axle Trailer	WWTP	Pequea VIN:4JASL182-1-UG00038	Poor	2003	1	$25,000	$25,000
11	Auto	Trailer for Sewer/Water Main Break	WWTP	Dual Axle	Good		1	$8,000	$8,000
12	Auto	Back Hoe with loader	WWTP	New Holland #2120	Good	1995	1	$12,000	$12,000
				Auto Subtotal					**$171,400**
13	Inland	ARC Welder	WWTP	Lincoln Electric AC/DC 225/125	Good	1995	1	$1,000	$1,000
14	Inland	Clothes Washing Machine	WWTP	Kenmore 80 Series	Good	2000	1	$500	$500
15	Inland	Clothes Dryer Machine	WWTP	Whirlpool Heavy-Duty Large Capacity	Good	2000	1	$500	$500
16	Inland	4" Trash Pump	WWTP	Barnes	Reman		1	$3,000	$3,000
17	Inland	1/2 Hp. Submersible pump	WWTP	Barnes	Reman		1	$900	$900
18	Inland	Hydraulic Stationary Press	WWTP	20 Ton	Good	1995-'00	1	$300	$300
19	Inland	Air Compressor (3.5 hp. 15 gal)	WWTP	Craftsman #919.1529.12	Good	1995-'00	1	$300	$300
20	Inland	Parts Washer	WWTP	Gray Mill DMD 232	Good	1995-'00	1	$250	$250
21	Inland	Metal Shelving	WWTP	Industrial Grade 2 1/2' x 6'	Good	1995-'00	8	$250	$2,000
22	Inland	3" Trash Pump	WWTP	Honda WT 30X	New	1995-'00	1	$1,000	$1,000
23	Inland	3" Trash Pump	WWTP	Honda 6X 240 MAX	Good	1995-'00	1	$1,800	$1,800
24	Inland	Tamper BT-50	WWTP	BOMAG #00832421	Good	1995-'00	1	$1,500	$1,500

Record #	Insurance Type	Name	Location / Address	Serial/VIN Model Number Discription	Condition	Year Acquired	# of Units	Per Unit Cost	Replacement Cost
25	Inland	Water Valve 4"	WWTP	Kennedy #040A236023 LN	New	1995-'00	7	$800	$5,600
26	Inland	2" Gate Valve	WWTP	Kennedy M139877	New	1995-'00	1	$300	$300
27	Inland	Water Line Connector	WWTP	8" x 3"	New	1995-'00	1	$100	$100
28	Inland	Water Line Connector	WWTP	4" x 1"	New	1995-'00	2	$75	$150
29	Inland	Flanged Cross Connector	WWTP	4"	New	1995-'00	1	$300	$300
30	Inland	Check Valve	WWTP	Mueller 4" (175WP)	New	1989	2	$1,000	$2,000
31	Inland	Flanged Connector	WWTP	8" x 15"	New	1995-'00	1	$600	$600
32	Inland	Inground Meter Pit Casting Lids	WWTP		New	1995-'00	11	$125	$1,375
33	Inland	Discharge Hose	WWTP	4" x 50'	Good	1995-'00	1	$500	$500
34	Inland	Geotextile Bags	WWTP	20 yard	Good	1995-'00	10	$380	$3,800
35	Inland	Water Curb Boxes	WWTP		New	1995-'00	1	$150	$150
36	Inland	Fire Hydrant	WWTP	Kennedy 5 1/2" 200 CWP	Good	1995-'00	1	$1,500	$1,500
37	Inland	Acetalyne Torch Regulator/Hose Cart	WWTP		Good	1995	1	$600	$600
38	Inland	Portable Air tank	WWTP	10 gallon GA-0503004752	Good	1995-'00	1	$80	$80
39	Inland	Chain Saw	WWTP	Stihl #036	Good	1995-'00	1	$500	$500
40	Inland	Hydraulic Floor Jack	WWTP	F361 SWC	New	1995-'00	1	$150	$150
41	Inland	Mop Bucket & Ringer	WWTP		Good	1995-'00	2	$80	$160
42	Inland	Wheel Barrow	WWTP	Rubbermaid 5 Cu. Ft.	Good	1995-'00	1	$100	$100
43	Inland	UV Bulbs/Crystals	WWTP	#302208-004 R.D.	Good	1995-'00	6	$100	$600
44	Inland	Power Washer	WWTP	Honda 6X 160 5.5 hp.	Good	2001	1	$400	$400
45	Inland	Effluent Sampler	WWTP	Sigma 900	New	2010	1	$6,500	$6,500
46	Inland	Power Snake	WWTP	Rigid K-50	Good	1995-'00	1	$300	$300
47	Inland	Propane Flame Thrower	WWTP	BW 100	Good	1995-'00	1	$200	$200
48	Inland	Effluent Sampler Chart Recorder	WWTP	Hoch	Good	1995-'00	1	$5,000	$5,000
49	Inland	Effluent Sampler Flow Meter	WWTP	Hoch	Good	1995-'00	1	$4,000	$4,000
50	Inland	Metal Forman's Desk	WWTP		Good	1980	1	$200	$200
51	Inland	High Pressure Hose	WWTP	50'	Good		2	$300	$600
52	Inland	Finishing Mower	WWTP	New Holland 50' #930-B	Good		1	$1,800	$1,800
53	Inland	Brush Bull	WWTP	Woods 60"	Good	1995	1	$2,000	$2,000

Record #	Insurance Type	Name	Location / Address	Serial/VIN Model Number Discription	Condition	Year Acquired	# of Units	Per Unit Cost	Replacement Cost
54	Inland	Bulk Water Tank	WWTP	Snyder 350 gallon	Good	2001	1	$1,600	$1,600
55	Inland	Small Mobile Generator	WWTP	Honda EB 2500	Good		1	$400	$400
56	Inland	Fuel Tansfer Pump Station	WWTP	GPI #150S	Good		1	$2,000	$2,000
57	Inland	Tri-Pod Winch	WWTP		Good	1995-'00	2	$2,000	$4,000
58	Inland	Electronic Microscope	WWTP	Van Guard Scientific	Good	2010	1	$2,000	$2,000
59	Inland	KSB TYPE KRT Submersible Pumps	WWTP	E80-200 34x6 19mm	Good	1995-'00	2	$8,000	$16,000
60	Inland	Weed Wacker	WWTP	Echo SRM 2400	Good	1995-'00	2	$300	$600
61	Inland	3 hp Pumps	WWTP	Hydrostatic 5300 M2-4	Good	1995-'00	50	$4,700	$235,000
62	Inland	Manhole Smoke Tester Ventalator	WWTP	Superior #20-5hp	Good	1992	9	$2,000	$18,000
63	Inland	Western 8' Snow Plow	WWTP	#9130450099	Good	1989	1	$1,200	$1,200
64	Inland	Propane Torpedo Heater	WWTP	Dayton 300,000 BTU	Good	2008	1	$300	$300
65	Inland	Influent Sampler	WWTP	Telydyne ISCO 4700	New	2010	1	$6,000	$6,000
66	Inland	Utilty Space Heaters	WWTP	120 volts MHD 1502T	Good	2010	14	$150	$2,100
67	Inland	Dehumidifiers	WWTP	BHD-301-G	Rebuilt	2010	12	$150	$1,800
68	Inland	Spades	WWTP		Good	1995-'00	6	$30	$180
69	Inland	Flat Shovels	WWTP		Good	1995-'00	6	$50	$300
70	Inland	Manure Forks	WWTP		Good	1995-'00	2	$70	$140
71	Inland	Pony Spades	WWTP		Good	1995-'00	3	$40	$120
72	Inland	Rakes	WWTP		Good	1995-'00	5	$20	$100
73	Inland	Push Brooms	WWTP		Good	1995-'00	4	$25	$100
74	Inland	5' Spud Bars	WWTP	Steel	Good	1995-'00	2	$60	$120
75	Inland	Pick Axes	WWTP	Wood Steel	Good	1995-'00	2	$60	$120
76	Inland	Honey Dipper	WWTP		Good	1995-'00	1	$200	$200
77	Inland	Fiberglass Post Pounder	WWTP		Good	1995-'00	1	$100	$100
78	Inland	Crescent Pipe Tong	WWTP	1500 pounds #310	Good	1995-'00	1	$1,000	$1,000
79	Inland	Hydrant Wrenches	WWTP	Steel	Good	1995-'00	6	$25	$150
80	Inland	Recovery Winch Fall Protection	WWTP	MSEC #2003G	Good	1995-'00	2	$1,100	$2,200
81	Inland	Emergency HDX Back Board	WWTP		Good	1995-'00	1	$300	$300
82	Inland	Filter sand	WWTP	100# bags	Good	1995-'00	24	$110	$2,640

Record #	Insurance Type	Name	Location / Address	Serial/VIN Model Number Discription	Condition	Year Acquired	# of Units	Per Unit Cost	Replacement Cost
83	Inland	Snow Fence	WWTP	200'	Good	1995-'00	1	$400	$400
84	Inland	3/4" CPS	WWTP	300'	Good	1995-'00	1	$190	$190
85	Inland	Shop Vacuums	WWTP	Craftsman	Good	1995-'00	2	$100	$200
86	Inland	20 Yard Dumpster	WWTP	Schmidt Equipment #16527	Good	2009	1	$5,000	$5,000
87	Inland	Drill Press	WWTP	Craftsman 15", 12 speed, 1Hp 5/8 chuck	Unused	2007	1	$400	$400
88	Inland	Bench Grinder	WWTP	Crafstman 1/3 Hp, 120-v	Good		1	$200	$200
89	Inland	Drill Hammer, Circ. Saw, Sawzaw, light	WWTP	Milwaukee V28 xc	Good	2010	1	$450	$450
90	Inland	Surveyance equipment	WWTP		Good		1	$600	$600
91	Inland	Fire Extinguishers	Villagewide	16#, WH-734012	Good	2010	6	$60	$360
92	Inland	Heavy Duty Bench Vise	WWTP		Good	1995-'00	1	$160	$160
93	Inland	Heat Gun	WWTP	Master 120 V.A.C. 60Hz 12 amps	Good	2010	1	$80	$80
94	Inland	Plug in hand drill	WWTP	Carftsman 7/8	Good		1	$80	$80
95	Inland	Battery Hand Drill	WWTP	Dewalt 12V	Good		1	$80	$80
96	Inland	Submersable Pump	WWTP	Master Plumber 1/10hp 390 GPH	Good		1	$500	$500
97	Inland	Stethoscope	WWTP	TEKTO	Good	2010	1	$50	$50
98	Inland	Propane Torch	WWTP	Weller 2500 F	Good		1	$60	$60
99	Inland	Battery Charger	WWTP	2/10/50 AMP	Good		2	$150	$300
100	Inland	Manhole light/heater unit	WWTP	Power Cat by FASCO	Good		1	$1,000	$1,000
101	Inland	Artic Pants & Jackets	WWTP	Carhartt	Good		3	$250	$750
102	Inland	Rain Gear	WWTP	LaCrosse	Good		3	$100	$300
103	Inland	Chlorine Pump	WWTP	LMI 100 gal a day A181-91T	New		2	$250	$500
104	Inland	Lift Station Flex Coupling	WWTP	Dodge PX20	Good		4	$100	$400
105	Inland	Trench Box	WWTP	Aluminum 10 x 3	Good		6	$1,000	$6,000
106	Inland	Diaphram Pump	WWTP	Honda 6X160 5 HP	Good	2001	1	$5,000	$5,000
107	Inland	Air Compressor	WWTP	Ingersoll Rand 5.5 HP #0406150164	Good	2001	1	$3,000	$3,000
108	Inland	Light Stand	WWTP	Luna Pro Dual 300W	Good		3	$100	$300
109	Inland	Baracades with lights	WWTP	Orange and Yellow	Good		8	$150	$1,200
110	Inland	Air Hose	WWTP	100' of 3/8"	Good		2	$100	$200
111	Inland	Cargo Ratchet Straps	WWTP	2"	Good		4	$50	$200

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112	Inland	Power Cords	WWTP	100'	Good		6	$50	$300
113	Inland	Plastic Shed	WWTP	6' x 8' Rubbermaid	Good	2000	1	$400	$400
114	Inland	Commercial Shelves	WWTP	6' - four shelf	Good		9	$200	$1,800
115	Inland	Security Camera System w/screen	WWTP	H.264	Good		1	$400	$400
116	Inland	Lab Refrigerator	WWTP	GE 3.5 Cu.	Good		1	$100	$100
117	Inland	Chlorine Test Kits	WWTP	Hach	Good		3	$300	$900
118	Inland	Polymer Jar Test Kit	WWTP		Good		1	$200	$200
119	Inland	Gas Calibration Kit	WWTP		Good		2	$300	$600
120	Inland	Time Card Machine	WWTP	Lathem 1000 E	Good		1	$100	$100
121	Inland	Portable Oxygen Desolve Meter	WWTP		Good		1	$500	$500
122	Inland	Assorted Lab Glass	WWTP		Good		1	$2,000	$2,000
123	Inland	Barometer	WWTP	Sunbeam	Good		1	$150	$150
124	Inland	PH temperature meter	WWTP	Orion 4 Star	Good		2	$1,400	$2,800
125	Inland	Hot Plat Stirrer	WWTP	Barn Stead Thermal Line	Good		2	$75	$150
126	Inland	Office Jet Printer	WWTP	HP	Good		1	$400	$400
127	Inland	Fire Water Hose Clamp	WWTP	100' of 3" hose	Good		3	$100	$300
128	Inland	Assorted Tarps	WWTP		Good		6	$50	$300
129	Inland	PVC Tee's	WWTP	90 Degree	Good				$0
130	Inland	Rubber Sewer Line Plugs	WWTP	12", 10", 8"	Good		4	$200	$800
131	Inland	2" PVC Tee's	WWTP	90 & 45 Degree	Good		30	$15	$450
132	Inland	Rubber Fernco Connector	WWTP	4"	Good		20	$15	$300
133	Inland	PVC Insulated Connectors	WWTP	1 1/4"	Good		30	$15	$450
134	Inland	DFW/HP1 Flex Saddle	WWTP	Y Version	Good		3	$150	$450
135	Inland	PVC Sewer Tee	WWTP	8"	Good		1	$120	$120
136	Inland	Stainless Steel Tapping Sleeve	WWTP	8"	Good		1	$500	$500
137	Inland	Assorted Spindles of Wire	WWTP		Good		1	$500	$500
138	Inland	Non-Metalic Elictrical Enclosure	WWTP		Good		2	$150	$300
139	Inland	Copper Meter Setters	WWTP		Good		10	$200	$2,000
140	Inland	Copper Meter Setter w/dual check	WWTP		Good		8	$200	$1,600

Record #	Insurance Type	Name	Location / Address	Serial/VIN Model Number Discription	Condition	Year Acquired	# of Units	Per Unit Cost	Replacement Cost
141	Inland	3/4" Coupling 400	WWTP	Blair Smith	New		2	$100	$200
142	Inland	2" Coupling 400	WWTP	Blair Smith	New		3	$150	$450
143	Inland	3" Coupling 400	WWTP	Blair Smith	New		4	$200	$800
144	Inland	4" Coupling 400	WWTP	Blair Smith	New		4	$300	$1,200
145	Inland	6" Coupling 400	WWTP	Blair Smith	New		13	$300	$3,900
146	Inland	8" Coupling 400	WWTP	Blair Smith	New		6	$300	$1,800
147	Inland	Stainless 6 Bolt Seal	WWTP	8"	Good		2	$200	$400
148	Inland	Transite Power Seal	WWTP	3" x 12"	New		2	$95	$190
149	Inland	Transite Power Seal	WWTP	4" x 12"	New		5	$99	$495
150	Inland	Single Band Water Band	WWTP	4"	New		2	$145	$290
151	Inland	DI CPLG Coupling	WWTP	4"	New		2	$310	$620
152	Inland	DI CPLG Coupling	WWTP	8"	New		2	$399	$798
153	Inland	Full Circle Stainless Alloy Clamp	WWTP	1' 2 1/2"	New		3	$400	$1,200
154	Inland	Transite Clamp	WWTP	4"	New		1	$200	$200
155	Inland	Full Circle Stainless Alloy Bolt Clamp	WWTP	15"	New		1	$300	$300
156	Inland	Full Circle Stainless Alloy Clamp	WWTP	12.5"	New		3	$500	$1,500
157	Inland	Power Seal Repair Clamp	WWTP	12"	New		3	$403	$1,209
158	Inland	Full Circle Stainless Repair Clamp	WWTP	7 1/2"	New		1	$196	$196
159	Inland	Full Cirlcle Stainless Repair Clamp	WWTP	4"	New		14	$135	$1,890
160	Inland	Full Circle Bolt Alloy PVC	WWTP	3"	New		2	$121	$242
161	Inland	Single Band Repair	WWTP	7.5"	New		2	$106	$212
162	Inland	Micorwave Radar Range	WWTP	Amana	Good		1	$40	$40
163	Inland	Steel Blue Print Cabinet	WWTP	16 Drawer (4' x 3' x	Good		1	$750	$750
164	Inland	Upright Kitchen Refrigerator	WWTP	Whirlpool	Good		1	$350	$350
165	Inland	Upright Metal File Cabinet	WWTP	Cole 5 Drawer	Good		1	$300	$300
166	Inland	Auto Dialing Alarm	WWTP	Dialog Plus - Kaye	Good	2000	1	$1,500	$1,500
167	Inland	Power Supply	WWTP	Trip Lite 500 Watt	Good	2000	1	$160	$160
168	Inland	Flow Chart	WWTP	Neptune Tricon J034034	Good		1	$2,000	$2,000
169	Inland	Chlorine Analyser	WWTP	Hach CL17	Good	2000	1	$5,000	$5,000

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170	Inland	Mini Lab Refrigerator	WWTP	Black & Decker	New	2010	1	$50	$50
171	Inland	Non-Submersible Lift Station Pump	WWTP	400 MPD	Rebuilt		5	$2,500	$12,500
172	Inland	Non-Submersible Drive Pump	WWTP	GE 5K484DL272	Good		5	$2,500	$12,500
173	Inland	Pump Impellors	WWTP	7 1/4 to 8 1/2"	New		12	$1,000	$12,000
174	Inland	Pump Shafts	WWTP	2"	New		4	$500	$2,000
175	Inland	In Ground Vent Blowers	WWTP	Reliance Electric 1/4 HP	New		2	$800	$1,600
176	Inland	Hot Water Heater	WWTP	40 gallon - Commercial Grade	New		1	$200	$200
177	Inland	Yard Water Meters	WWTP	Neptune	New		10	$100	$1,000
178	Inland	Water meter heads	WWTP	Neptune	New		6	$28	$168
179	Inland	Brass male adaptor	WWTP	3/4"	New		15	$20	$300
180	Inland	Brass 3 pc. Union	WWTP	Ford 3/4"	New		6	$20	$120
181	Inland	Brass 3 pc. Union CTS to CTS	WWTP	Mueller 3/4"	New		12	$20	$240
182	Inland	Brass Coupler Iron to CTS	WWTP	3/4"	New		19	$20	$380
183	Inland	Elbo Pipe to CTS	WWTP	3/4"	New		5	$20	$100
184	Inland	90 Degree Coupling	WWTP	3/4"	New		10	$20	$200
185	Inland	Meter Coupling	WWTP	3/4" Right Angle	New		5	$20	$100
186	Inland	Meter Valve	WWTP	3/4"	New		9	$20	$180
187	Inland	3 Piece Coupling	WWTP	1"	New		12	$20	$240
188	Inland	90 Degree Valve	WWTP	1"	New		5	$20	$100
189	Inland	Male Adapter Iron to CTS	WWTP	1"	New		6	$22	$132
190	Inland	Reducers	WWTP	3/4" to 1"	New		4	$26	$104
191	Inland	Corp Stop	WWTP	3/4"	New		10	$90	$900
192	Inland	Iron Pipe to CTS	WWTP	3/4"	New		15	$15	$225
193	Inland	CTS 90 Degree Elbo	WWTP	3/4"	New		10	$15	$150
194	Inland	Meter Coupling	WWTP	3/4"	New		6	$15	$90
195	Inland	Copper Flange Corp Stop	WWTP	3/4"	New		3	$30	$90
196	Inland	Female Pipe to 1" CTS	WWTP	3/4"	New		12	$18	$216
197	Inland	Female to Female Adapter	WWTP	3/4"	New		20	$20	$400
198	Inland	Brass Gate Valves	WWTP	3/4"	New		8	$20	$160

Record #	Insurance Type	Name	Location / Address	Serial/VIN Model Number Discription	Condition	Year Acquired	# of Units	Per Unit Cost	Replacement Cost
199	Inland	CTS Tee's	WWTP	3/4"	New		1	$40	$40
200	Inland	Meter Washers	WWTP	1" & 3/4"	New		200	$0	$50
201	Inland	CTS 90 Degree Meter Valve	WWTP	1"	New		1	$50	$50
202	Inland	PVC Glue Fittings	WWTP	Assorted sizes	New		40	$4	$160
203	Inland	Silt Fencing	WWTP		Good		200	$1	$200
204	Inland	Steel Sheeting	WWTP	1/16"	New		1	$80	$80
205	Inland	Yard Hydrant	WWTP	Kennedy	Good		1	$300	$300
206	Inland	Confined Space Baracades	WWTP		Good		2	$200	$400
207	Inland	Influent Sampler	WWTP	Jug	New		1	$100	$100
208	Inland	Float Mounting Stainless Bracket	WWTP	6-hole	New		10	$100	$1,000
209	Inland	PVC Conduit	WWTP	1 1/2" x 10'	New		10	$15	$150
210	Inland	Copper Tubbing	WWTP	1/2" 60' Coil	New		1	$200	$200
211	Inland	MTW - AWM Wire	WWTP	500'	New		1	$300	$300
212	Inland	Polyethaline Drain Grate	WWTP	12"	New		3	$100	$300
213	Inland	Chair	WWTP	La-z-boy	NIB		1	$180	$180
214	Inland	Captain's Chair	WWTP	Hard Wood	Good	1980	2	$60	$120
215	Inland	Check Valve	WWTP	Cambell 1 1/4"	New		4	$35	$140
216	Inland	Female to Female Brass Connector	WWTP	1 1/4"	New		12	$20	$240
217	Inland	PVC Assorted Adaptors	WWTP	2"	New		20	$5	$100
218	Inland	Stainless Nipples & Adaptors	WWTP	1/2" to 3/4"	New		15	$5	$68
219	Inland	Metering Pumps	WWTP	115 volts LO545APTC1xxx	Fair		3	$100	$300
220	Inland	Keelamp Fittings	WWTP	5A477	New		4	$15	$60
221	Inland	Keelamp Fittings	WWTP	5A595	Good		16	$20	$320
222	Inland	Ball Turnoffs	WWTP	PVC	Good		8	$15	$120
223	Inland	Loop & Chains	WWTP	4"	Good		4	$20	$80
224	Inland	LMI 4 Function Valve	WWTP	.375" Tubing	New		8	$20	$160
225	Inland	Amp Master Pump Switch	WWTP	1006312 20 amp	New		8	$150	$1,200
226	Inland	Water Pipe Seals	WWTP	Assorted large sizes	New		10	$20	$200
227	Inland	Seal Kit	WWTP	51700-025-7	New		2	$75	$150

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228	Inland	Seal Kit	WWTP	51700-033-7	New		3	$90	$270
229	Inland	Tee's, Plugs, Fittings	WWTP	3"	New		10	$20	$200
230	Inland	PVC Adapter	WWTP	Spears 3"	New		12	$40	$480
231	Inland	Gas Pump Nozzle	WWTP	New in Box	New		1	$100	$100
232	Inland	Gas Pump Diaphram	WWTP	GT 315-6	New		1	$200	$200
233	Inland	Partner Demosan	WWTP	K700 Active3	New		2	$1,600	$3,200
234	Inland	Water Meters	WWTP	Neptune 5/8"	New		40	$100	$4,000
235	Inland	Circular Saw	WWTP	Dewalt 12V 7 1/2" Dw 368	Good		1	$178	$178
236	Inland	Cordless Drill	WWTP	Dewalt 18V	Good		1	$150	$150
237	Inland	Partner Saw Blades	WWTP	Box	New		5	$100	$500
238	Inland	Angle Grinder	WWTP	1 3/4 Hp, 7"	Good		2	$400	$800
239	Inland	Angle Grinder	WWTP	Micna 4 1/2" 6148-6	Good		1	$180	$180
240	Inland	Starting Capacitors	WWTP	Assorted sizes	Good		100	$10	$1,000
241	Inland	Hip Boots	WWTP		Good		3	$100	$300
242	Inland	Hard Hats	WWTP		Good		6	$10	$60
243	Inland	Chain Saw Blade Chains	WWTP		Good		6	$20	$120
244	Inland	Manhole Ventolator	WWTP	Allegro	Good		1	$600	$600
245	Inland	Hydrant Relief Valve	WWTP	Mueller 2 1/2"	Good		1	$1,500	$1,500
246	Inland	Calabrating Test Clamp	WWTP		Good		1	$200	$200
247	Inland	Baldor Pump Motor	WWTP	7.5 Hp FO805120404	Rebuilt		5	$700	$3,500
248	Inland	Marathon Pump Motor	WWTP	7.4 Hp UXA215TBFL7058BPL	Rebuilt		3	$1,000	$3,000
249	Inland	Dayton Pump Motor	WWTP	5Hp. 5K4849	Rebuilt		3	$750	$2,250
250	Inland	Baldor Pump Motor	WWTP	7.5 Hp.805290295	Rebuilt		3	$750	$2,250
251	Inland	AJAX Pump Motor	WWTP	3.0 Hp. M-3-12-215T	Rebuilt		3	$750	$2,250
252	Inland	Marathon Pump Motor	WWTP	EL 10 Hp. RUM21STTDR-7026HTL	Rebuilt		1	$1,000	$1,000
253	Inland	WEG Pump Motor	WWTP	212213T	Rebuilt		1	$1,000	$1,000
254	Inland	AJAX Pump Motor	WWTP	5.0 Hp. 9792-92-10-198	Rebuilt		1	$1,000	$1,000
255	Inland	Dayton Pump Motor	WWTP	3.0 Hp. 5K 483M	Rebuilt		1	$1,000	$1,000
256	Inland	Dayton Pump Motor	WWTP	10 Hp. 5N299	Rebuilt		1	$1,000	$1,000

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257	Inland	GE Pump Motor	WWTP	5 Hp. 5KC 216AK202	Rebuilt		1	$1,000	$1,000
258	Inland	Service Saddle	WWTP	4"	New		1	$85	$85
259	Inland	Fast Tap	WWTP	3"	New		12	$97	$1,164
260	Inland	Dresser Quick Tap	WWTP	3/4" CTS	New		8	$200	$1,600
261	Inland	Packing Gaskets	WWTP	4" 803456	New		1	$70	$70
262	Inland	MCD Tap	WWTP	C-900 Pipe 6 x 3/4"	New		1	$200	$200
263	Inland	Plastic Pipe Saddle	WWTP	4"	New		3	$75	$225
264	Inland	Trash Pump	WWTP	Honda 2" WT 20X	Good		1	$500	$500
265	Inland	Sludge Dewatering Polymer Port-a-Poly	WWTP	IWAKI	Good		1	$3,000	$3,000
266	Inland	Natural gas detector	WWTP	BW Tech Gas Alert Max XT	Good		2	$800	$1,600
267	Inland	Sludge Dewatering Static Mixer	WWTP		Good		1	$2,000	$2,000
				Inland Subtotal					**$523,352**
268	Police		2500 Hayford Rd		Good				$0
269	Police	Department Computers	2500 Hayford Rd	Pentium IV	Good		3	$1,000	$3,000
270	Police	Mobile radio's	2500 Hayford Rd	MARCS	Good		3	$3,500	$10,500
271	Police	Portable (officer) radio's	2500 Hayford Rd	MARCS	Good		3	$2,500	$7,500
272	Police	Radio Repeater	2500 Hayford Rd	Pyamid	Good		3	$1,000	$3,000
273	Police	DVD Player	2500 Hayford Rd	Sony	Good		1	$100	$100
274	Police	Shot Guns	2500 Hayford Rd	Mossberg's	Good		3	$600	$1,800
275	Police	Digital Camera	2500 Hayford Rd	Canon	Good		1	$300	$300
276	Police	Server	2500 Hayford Road	Dell	Good		1	$5,000	$5,000
277	Police	Binoculars	2500 Hayford Road	Bushnell	Good		2	$150	$300
278	Police	Intoxilizer	2500 Hayford Road	S-D%	Good		3	$500	$1,500
279	Police	Day/night vision Binoculars	2500 Hayford Road	Fraiser-Volpe "Stedi-eye"	Good		1	$6,000	$6,000
280	Police	Finger printing kit	2500 Hayford Road		Good		1	$200	$200
281	Police	Homeland Security Kit	2500 Hayford Road	Dell Computer, Range finder, GPS, etc.	2008		1	$2,000	$2,000
282	Police	Lasar jet printer	2500 Hayford Road	Lexmarks	Good		3	$400	$1,200
283	Police	Low-band portible radio	2500 Hayford Road	Motorola	Good		5	$500	$2,500

Record #	Insurance Type	Name	Location / Address	Serial/VIN Model Number Discription	Condition	Year Acquired	# of Units	Per Unit Cost	Replacement Cost
				Police Subtotal					**$44,900**
279	Property	Fixed Ultra Violet Disinfection Unit	WWTP	Trojan 3000PTP - UVM	Good	2001	1	$20,000	$20,000
280	Property	UV Concrete Tub	WWTP	5' x 12'	Good	2001	1	$10,000	$10,000
281	Property	Fixed Sand Filter System	WWTP	Aqua Aerobic ABF-612P #105959	Good	1995-'00	2	$100,000	$200,000
282	Property	Sand Filter Building Ceiling Heater	WWTP	Trane	Good	1995-'00	2	$4,000	$8,000
283	Property	Metal Pole Sand Filter Building	WWTP	50' x 80'	New	2001	1	$60,000	$60,000
284	Property	Treatment Plant Pole Barn Building	WWTP	32' x 96'	Good		1	$100,000	$100,000
285	Property	Pump Shed	WWTP	20' x 10'	Fair	1966	1	$2,000	$2,000
286	Property	Air Flow Compressors	WWTP	Kaeser Omega DB 165	Good	2001	3	$400,000	$1,200,000
287	Property	Air Flow Compressors	WWTP	Kaeser Omega DB 235	Good	2001	2	$400,000	$800,000
288	Property	Sand Filter Building Exhaust Fan	WWTP	Loren Cook Co.	Good		1	$4,000	$4,000
289	Property	Auxillary Generator	WWTP	Generac SD 180 M507600	Good	2001	1	$250,000	$250,000
290	Property	Water Tower	Rome Rock Creek Rd		Good	1965	1	$500,000	$500,000
291	Property	800' Earthen Dam	2500 Hayford Rd		Good	1966	1	$5,000,000	$5,000,000
292	Property	Emergency Spillway	2500 Hayford Rd		Good	1966	1	$1,000,000	$1,000,000
293	Property	Reznor Heater	WWTP	45,000 BTU 600	Good		2	$2,500	$5,000
294	Property	Fuel Depot	WWTP	1000 gallon	Good		1	$8,000	$8,000
295	Property	Universal Power Roots Blower	WWTP	865-113-120	Good		3	$20,000	$60,000
296	Property	Village Hall	WWTP	10,000 plus square feet	New	2010	1	$880,000	$880,000
297	Property	Village Hall	WWTP	3,000 square feet	Poor	1985	1	$40,000	$40,000
				Property Subtotal					**$10,147,000**
								TOTAL	**$10,886,652**

Ohio Department of Natural Resources

TED STRICKLAND, GOVERNOR SEAN D. LOGAN, DIRECTOR

Division of Water

February 24, 2009

Village of Roaming Shores
Mayor, Carl Biats, Jr.
PO Box 237
Roaming Shores, OH 44084

RE: Roaming Rock Shores Lake Dam
File Number: 1506-001
Ashtabula County

Dear Mayor Biats:

Thank you for allowing Peter George and Tom Lagucki of the Division of Water to conduct a safety inspection of Roaming Rock Shores Lake Dam on October 15, 2008. This inspection was conducted by representatives of the Chief of the Division of Water under the provisions of Ohio Revised Code (ORC) Section 1521.062 to evaluate the condition of the dam and its appurtenances. The Chief has the responsibility to ensure that human life, health, and property are protected from dam failures. Conducting periodic safety inspections and working with dam owners to maintain and improve the overall condition of Ohio dams are vital aspects of achieving this purpose. A copy of the laws and administrative rules for dam safety is available on the division's web site or by request.

The enclosed inspection report was generated based on available information and is hereby provided for your use and study. Listed in the report are several repair, maintenance, and monitoring items that as dam owners you are required by law to perform. Completion of these required items will improve the safety and overall condition of the dam. The Chief must approve any plans for modifications or repairs to the dam. Following approval of the engineered plans, all necessary repairs must be implemented by the owner under the supervision of a registered professional engineer.

Please be advised that you may qualify for a loan to make required repairs from the Ohio Dam Safety Loan Program administered by the Ohio Water Development Authority (OWDA). To find out more about the program, please contact OWDA's Loan Officer at 614/466-5822.

To gain information that will help improve the inspection program, a short survey has been developed and is enclosed. Please complete the survey and return it in the self-addressed envelope provided. Your feedback is important.

Please note that ORC Section 1521.062 requires a dam owner to notify the Chief of the Division of Water in writing of a change in ownership of a dam prior to the exchange of the property.

Your cooperation in improving the overall condition of this dam is appreciated. Please contact Peter George at 614/265-6725 if you have any questions.

Sincerely,

Keith R. Banachowski, P.E.
Program Manager
Dam Safety Engineering Program
Division of Water

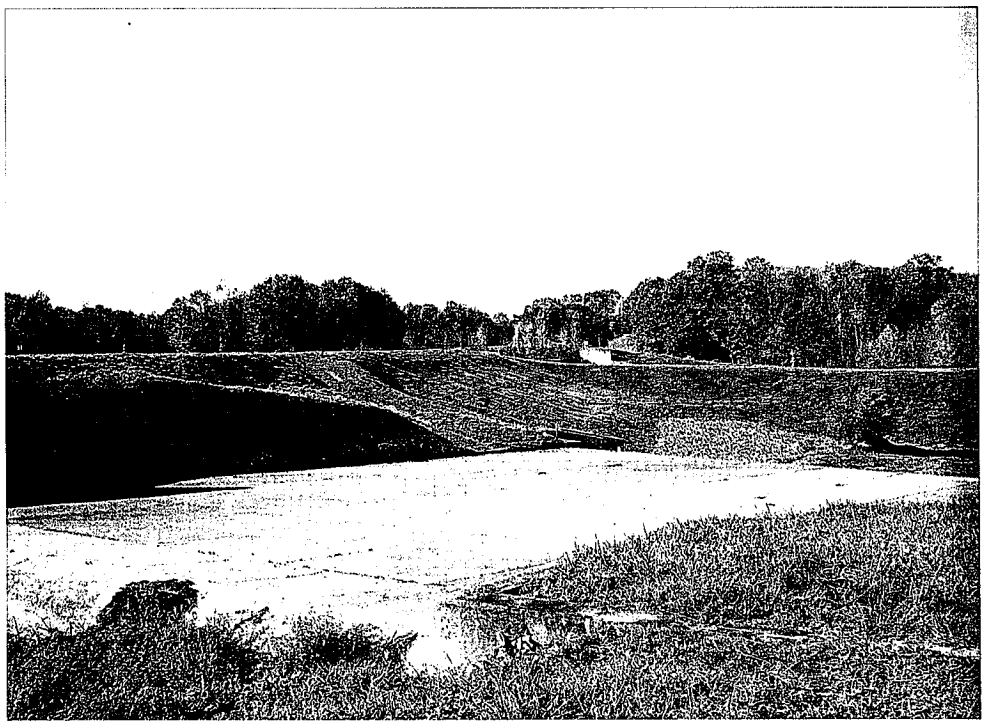
KRB:pmg

cc/enc: Peter George, P.E., Division of Water

Enclosures

DAM SAFETY INSPECTION REPORT

Roaming Rock Shores Lake Dam
File Number: 1506-001
Class I
Ashtabula County, Morgan Township
Inspection Date: October 15, 2008



In accordance with Ohio Revised Code Section 1521.062, the owners of dams must monitor, maintain, and operate their dams safely. Negligence of owners in fulfilling these responsibilities can lead to the development of extremely hazardous conditions to downstream residents and properties. In the event of a dam failure, owners can be subject to liability claims.

The Chief of the Division of Water has the responsibility to ensure that human life, health, and property are protected from the failure of dams. Conducting periodic safety inspections and working with dam owners to maintain and improve the overall condition of Ohio dams are vital aspects of achieving this purpose.

Representatives of the Chief conducted this inspection to evaluate the condition of the dam and its appurtenances under authority of Ohio Revised Code Section 1521.062. In accordance with Ohio Administrative Code Rule 1501:21-21-03, the owners of dams must implement all remedial measures listed in the enclosed report.

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Dam Safety Inspection Checklist

Section 1

Required Remedial Measures

The requirements listed below are based on observations made during inspection, calculations performed, and requirements of the Ohio Administrative Code (OAC). A checklist noting all observations made during the inspection has been enclosed in Section 3. References to right and left in this report are oriented as if you were standing on the dam crest and looking downstream.

Engineer Repairs and Investigations: The owner must retain the services of a professional engineer to address the following items. Plans, specifications, investigative reports, and other supporting documentation, as necessary, must be submitted to the Division of Water for review and approval prior to construction. The owner must complete this item and implement all engineered plans for improvement within 3 years unless otherwise stated. A record of all repairs should be included in the operation, maintenance, and inspection manual.

1. The principal spillway sidewall drain system must function properly. Investigate the condition of the pipe exiting the sidewalls of the principal spillway system. As necessary, prepare plans and specifications for the repair of the drain system.

Owner Repairs: The owner must address the following items. The owner may hire a contractor or perform the work him or herself. Repair activities should be documented in the operation, maintenance, and inspection manual.

1. Repair the concrete deterioration and reapply joint sealant in the principal spillway outlet chute. Also, clean the gutter drains located behind the spillway sidewalls. See the "Open Channel Spillways (Concrete Chutes and Weirs)", "Problems with Concrete Materials", and "Concrete Repair Techniques" fact sheets and Discussion Item No. 1 included in this section for additional information.

2. Repair the rodent burrows on the upstream slope. See the "Rodent Control" fact sheet included in this section for additional information.

3. Perform routine maintenance and clean the pipe outlets of the auxiliary spillway relief drains which exit into the stilling basin. See the "Seepage Through Earthen Dams" fact sheet included in this section for additional information.

Owner Dam Safety Program: In accordance with Ohio Revised Code (ORC) Section 1521.062, the owner of a dam shall maintain a safe structure and appurtenances through inspection, maintenance, and operation. A dam, like any other part of the infrastructure, will change and deteriorate over time. Appurtenances such as gates and valves must be routinely exercised to ensure their operability. Inspection and monitoring of the dam identifies changing conditions and problems as they develop, and maintenance prevents minor problems from developing into major ones. Dams must have these procedures documented in an operation, maintenance, and inspection manual.

Despite efforts to provide sufficient structural integrity and to perform inspection and maintenance, dams can develop problems that can lead to failure. Early detection and appropriate response are crucial for maintaining the safety of the dam and downstream people and property. The ORC requires the owner to fully and promptly notify the Division of Water of any condition, which threatens the safety of the

structure. A rapidly changing condition may be an indication of a potentially dangerous problem. The Dam Safety Engineering Program can be contacted at 614/265-6731 during business hours or at 614/799-9538 after business hours. Dam owners must have emergency preparedness procedures documented in an emergency action plan.

The owner must address the following items.

1. Monitor the fabriform upstream slope protection for deterioration or undermining yearly. See the "Upstream Slope Protection", fact sheet included in this section for guidance in monitoring the condition of the riprap and for additional information.

2. Monitor the wet area on the downstream toe quarterly for any signs of increased flow, muddy flow, or instability on or adjacent to the embankment. See the "Seepage Through Earthen Dams" fact sheet included in this section for guidance in monitoring the wet area and for additional information.

3. Monitor the condition of the principal spillway and auxiliary spillway outlet areas for further erosion of the bedrock yearly. See the "open Channel Spillways (Concrete Chutes and Weirs)" fact sheet included in this section for guidance in monitoring the spillway system and for additional information.

4. Monitor the leakage from the lake drain system for sudden increases in flow. See the "Lake Drains" fact sheet included in this section for guidance in monitoring the lake drain and for additional information.

Peter George 2/19/09
Peter George, P.E. Date
Project Manager
Dam Safety Engineering Program
Division of Water

Tom Lagucki 2/19/09
Tom Lagucki Date
Construction Specialist
Dam Safety Engineering Program
Division of Water

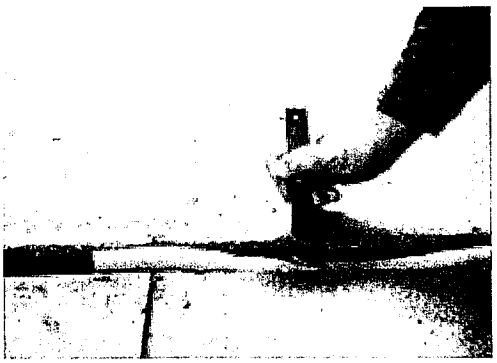
This inspection was performed pursuant to the authority granted to the Chief of the Division of Water in ORC Section 1521.062.

2-24-2009
Keith R. Banachowski, P.E. Date
Program Manager
On behalf of Cathryn N. Loucas, Deputy Director/Acting Chief
Division of Water

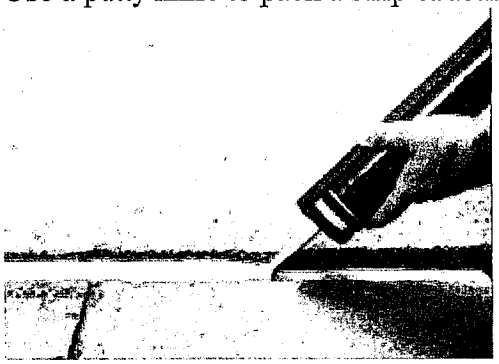
Discussion Items

1. As concrete structures age, the joint material may start to deteriorate. It is important to protect the joints from water and freeze/thaw damage. A small amount of preventive maintenance can extend the life of the concrete structure.

To repair a joint, start by removing all loose joint material and debris in the expansion joint. Clean out the joint with a wet-dry vac or compressed air. Clean the sides of the joint to clean dry concrete – grind if necessary. Do not leave any old joint adhesive, oils, greases, or other material that may prevent the new sealant from adhering. Use a putty knife to pack a strip of foam backer rod into the joint so there is firm support for the new joint sealant. Backer materials must be at a depth no greater than½ the width of the joint. Example, a joint 2 inches wide should have sealant no more than 1 inch in depth. Cover the backer rod and seal the joint with a liberal layer of self-leveling urethane sealant for horizontal joints. For vertical or sloping joints, a non-sagging sealant must be used. Follow manufacturer's directions and wear safety goggles and rubber gloves when applying the sealant.



Use a putty knife to pack a strip of foam backer rod into the joint.



Cover the backer rod and seal the joint with a liberal layer of sealant.

Ohio Department of Natural Resources
Division of Water Fact Sheet

Fact Sheet 99–59

Dam Safety: Open Channel Spillways

(Concrete Chutes and Weirs)

Concrete chutes and weirs are used for principal spillways and emergency spillways. The principal spillway is used to pass normal flows, and the emergency spillway provides additional flow capacity during large flood events. If the principal spillway for a dam is a concrete weir and/or chute, the flow capacity may be large enough that an emergency spillway is not needed. Unlike grass-lined channel spillways that should always be located on natural ground, a concrete weir or chute may be located on the dam, but must be properly designed so that the integrity of the dam is not endangered.

The main components of a concrete chute spillway are the inlet structure, control section, discharge channel, and outlet erosion control structure. The inlet structure conveys water to the control section. The control section is the highest point in the channel and regulates the outflow from the reservoir. It is usually located on or near the crest of the dam. The control section may consist of a concrete weir or may simply be the most elevated slab in the floor of the chute. The discharge channel is located downstream of the control section and conveys flow to the outlet erosion control structure. This structure is designed to dissipate most of the erosive energy of the flow before it enters the downstream channel.

Overall Design and Safety Considerations

Alignment

For good hydraulic performance, abrupt changes should be avoided. This applies to sudden changes in vertical elevation of the chute floor, abrupt widening or narrowing of the chute, and sharp turns in the chute. Anything that will abruptly disrupt or change the direction of the flow in the chute will reduce flow capacity and will place more stress on the concrete. The best performance is obtained when the distribution of flow is even across the channel.

Settlement and Movement

Abnormal settlement, heaving, deflections, and lateral movement of the sidewalls or floor slabs of the spillway can occur. Movements are usually caused by a loss of underlying material, excessive settlement of the fill, or the buildup of water pressure behind or under the structure. Any abnormal settlement, heaving, deflections or lateral movement in the concrete spillway should be immediately investigated by a registered professional engineer knowledgeable about dam safety. As necessary, plans and specifications for repair to the spillway should also be promptly developed and implemented by a registered professional engineer.

The concrete sidewalls and floor of the chute must have enough strength to withstand water loads, soil/fill loads, uplift forces, weathering, and abrasion. The forces of weathering, movement of abrasive materials by water flowing in the spillway, or cavitation may cause surface defects or more serious concrete deterioration. The freeze-thaw cycle is the most damaging weathering force acting on exposed concrete. The concrete's durability and resistance to weathering and deterioration will be determined by the concrete mix, age of the concrete, and proper sealing of the joints. Typical problems with concrete structures include scaling, spalling, honeycombing, bugholes, and popouts. Please refer to the "Problems with Concrete Materials" fact sheet for further explanation of these problems and more details about concrete durability and design. Plans and specifications for repair of structural cracks, or other structural problems, should be developed and implemented by a registered professional engineer so that the integrity of the spillway and/or embankment is not jeopardized.

Undermining

Undermining of the chute may occur at any point along its length. The chute may become undermined at the inlet and/or outlet due to an inadequate cutoff wall or erosion protection. Erosion beneath and alongside the spillway may also be caused by seepage and inadequate drainage. Undermining and erosion will lead to settlement of the undermined portions of the chute. If the concrete spillway is located on the embankment, undermining and collapse of portions of the chute will jeopardize the safety of the dam. If the spillway is located in the abutment, erosion and lowering of the lake level may result. A registered professional engineer should be hired to develop plans and specifications to repair undermining of the chute.

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Ohio Department of Natural Resources
Division of Water Fact Sheet

Fact Sheet 99–56

Dam Safety: Problems with Concrete Materials

Visual inspection of concrete will allow for the detection of distressed or deteriorated areas. Problems with concrete include construction errors, disintegration, scaling, cracking, efflorescence, erosion, spalling, and popouts.

Construction Errors

Errors made during construction such as adding improper amounts of water to the concrete mix, inadequate consolidation, and improper curing can cause distress and deterioration of the concrete. Proper mix design, placement, and curing of the concrete, as well as an experienced contractor are essential to prevent construction errors from occurring. Construction errors can lead to some of the problems discussed later in this fact sheet such as scaling and cracking. Honeycombing and bugholes can be observed after construction.

Honeycombing can be recognized by exposed coarse aggregate on the surface without any mortar covering or surrounding the aggregate particles. The honeycombing may extend deep into the concrete. Honeycombing can be caused by a poorly graded concrete mix, by too large of a coarse aggregate, or by insufficient vibration at the time of placement. Honeycombing will result in further deterioration of the concrete due to freeze-thaw because moisture can easily work its way into the honeycombed areas. Severe honeycombing should be repaired to prevent further deterioration of the concrete surface.

Bugholes is a term used to describe small holes (less than about 0.25 inch in diameter) that are noticeable on the surface of the concrete. Bugholes are generally caused by too much sand in the mix, a mix that is too lean, or excessive amplitude of vibration during placement. Bugholes may cause durability problems with the concrete and should be monitored.

Disintegration and Scaling

Disintegration can be described as the deterioration of the concrete into small fragments and individual aggregates. Scaling is a milder form of disintegration where the surface mortar flakes off. Large areas of crumbling (rotten) concrete, areas of deterioration which are more than about 3 to 4 inches deep (depending on the wall/slab thickness), and exposed rebar indicate serious concrete deterioration. If not repaired, this type of concrete deterioration may lead to structural instability of the concrete structure. A registered professional engineer must prepare plans and specifications for repair of serious concrete deterioration. For additional information, see the "Concrete Repair Techniques" fact sheet.

Disintegration can be a result of many causes such as freezing and thawing, chemical attack, and poor construction practices. All exposed concrete is subject to freeze-thaw, but the concrete's resistance to weathering is determined by the concrete mix and the age of the concrete. Concrete with the proper amounts of air, water, and cement, and a properly sized aggregate, will be much more durable. In addition, proper drainage is essential in preventing freeze-thaw damage. When critically saturated concrete (when 90% of the pore space in the concrete is filled with water) is exposed to freezing temperatures, the water in the pore spaces within the concrete freezes and expands, damaging the concrete. Repeated cycles of freezing and thawing will result in surface scaling and can lead to disintegration of the concrete. Hydraulic structures are especially susceptible to freeze-thaw damage since they are more likely to be critically saturated. Older structures are also more susceptible to freeze-thaw damage since the concrete was not air entrained. In addition, acidic substances in the surrounding soil and water can cause disintegration of the concrete surface due to a reaction between the acid and the hydrated cement.

Cracks

Cracks in the concrete may be structural or surface cracks. Surface cracks are generally less than a few millimeters wide and deep. These are often called hairline cracks and may consist of single, thin cracks, or cracks in a craze/map-like pattern. A small number of surface or shrinkage cracks is common and does not usually cause any problems. Surface cracks can be caused by freezing and thawing, poor construction practices, and alkali-aggregate reactivity. Alkali-aggregate reactivity occurs when the aggregate reacts with the cement causing crazing or map cracks. The placement of new concrete over old may cause surface cracks to develop. This occurs

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Ohio Department of Natural Resources
Division of Water Fact Sheet

Fact Sheet 94–32

Dam Safety: Concrete Repair Techniques

Concrete is an inexpensive, durable, strong and basic building material often used in dams for core walls, spillways, stilling basins, control towers, and slope protection. However, poor workmanship, construction procedures, and construction materials may cause imperfections that later require repair. Any long-term deterioration or damage to concrete structures caused by flowing water, ice, or other natural forces must be corrected. Neglecting to perform periodic maintenance and repairs to concrete structures as they occur could result in failure of the structure from either a structural or hydraulic standpoint. This in turn may threaten the continued safe operation and use of the dam.

Considerations

Floor or wall movement, extensive cracking, improper alignments, settlement, joint displacement, and extensive undermining are signs of major structural problems. In situations where concrete replacement solutions are required to repair deteriorated concrete, it is recommended that a registered professional engineer be retained to perform an inspection to assess the concrete's overall condition, and determine the extent of any structural damage and necessary remedial measures.

Typically, it is found that drainage systems are needed to relieve excessive water pressures under floors and behind walls. In addition, reinforcing steel must also be properly designed to handle tension zones and shear and bending forces in structural concrete produced by any external loading (including the weight of the structure). Therefore, the finished product in any concrete repair procedure should consist of a structure that is durable and able to withstand the effects of service conditions such as weathering, chemical action, and wear. Because of their complex nature, major structural repairs that require professional advice are not addressed here.

Repair Methods

Before any type of concrete repair is attempted, it is essential that all factors governing the deterioration or failure of the concrete structure are identified. This is required so that the appropriate remedial measures can be undertaken in the repair design to help correct the problem and prevent it from occurring in the future. The following techniques require expert and experienced assistance for the best results. The particular method of repair will depend on the size of the job and the type of repair required.

1. The Dry-Pack Method: The dry-pack method can be used on small holes in new concrete which have a depth equal to or greater that the surface diameter. Preparation of a dry-pack mix typically consists of about 1 part portland cement and 2 1/2 parts sand to be mixed with water. You then add enough water to produce a mortar that will stick together. Once the desired consistency is reached, the mortar is ready to be packed into the hole using thin layers.

2. Concrete Replacement: Concrete replacement is required when one-half to one square foot areas or larger extend entirely through the concrete sections or where the depth of damaged concrete exceeds 6 inches. When this occurs, normal concrete placement methods should be used. Repair will be more effective if tied in with existing reinforcing steel (rebar). This type of repair will require the assistance of a professional engineer experienced in concrete construction.

3. Replacement of Unformed Concrete: The replacement of damaged or deteriorated areas in horizontal slabs involves no special procedures other than those used in good construction practices for placement of new slabs. Repair work can be bonded to old concrete by use of a bond coat made of equal amounts of sand and cement. It should have the consistency of whipped cream and should be applied immediately ahead of concrete placement so that it will not set or dry out. Latex emulsions with portland cement and epoxy resins are also used as bonding coats.

4. Preplaced Aggregate Concrete: This special commercial technique has been used for massive repairs, particularly for underwater repairs of piers and abutments. The process consists of the following procedures: 1) Removing the deteriorated concrete, 2) forming the sections to be repaired, 3) prepacking the repair area with coarse aggregate, and 4) pressure grouting the voids between the aggregate particles with a cement or sand-cement mortar.

5. Synthetic Patches: One of the most recent developments in concrete repair has been the use of synthetic materials for bonding and patching. Epoxy-resin compounds are used extensively because of their high bonding properties and great strength. In applying epoxy-resin patching

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Ohio Department of Natural Resources
Division of Water Fact Sheet

Fact Sheet 94–27

Dam Safety: Rodent Control

Rodents such as the groundhog (woodchuck), muskrat, and beaver are attracted to dams and reservoirs, and can be quite dangerous to the structural integrity and proper performance of the embankment and spillway. Groundhog and muskrat burrows weaken the embankment and can serve as pathways for seepage. Beavers may plug the spillway and raise the pool level. Rodent control is essential in preserving a well-maintained dam.

Groundhog

The groundhog is the largest member of the squirrel family. Its coarse fur is a grizzled grayish brown with a reddish cast. Typical foods include grasses, clover, alfalfa, soybeans, peas, lettuce, and apples. Breeding takes place during early spring (beginning at the age of one year) with an average of four or five young per litter, one litter per year. The average life expectancy is two or three years with a maximum of six years.

Occupied groundhog burrows are easily recognized in the spring due to the groundhog's habit of keeping them "cleaned out." Fresh dirt is generally found at the mouth of active burrows. Half-round mounds, paths leading from the den to nearby fields, and clawed or girdled trees and shrubs also help identify inhabited burrows and dens.

When burrowing into an embankment, groundhogs stay above the phreatic surface (upper surface of seepage or saturation) to stay dry. The burrow is rarely a single tunnel. It is usually forked, with more than one entrance and with several side passages or rooms from 1 to 12 feet long.

Groundhog Control

Control methods should be implemented during early spring when active burrows are easy to find, young groundhogs have not scattered, and there is less likelihood of damage to other wildlife. In later summer, fall, and winter, game animals will scurry into groundhog burrows for brief protection and may even take up permanent abode during the period of groundhog hibernation.

Groundhogs can be controlled by trapping or shooting. Groundhogs will be discouraged from inhabiting the embankment if the vegetal cover is kept mowed.

Muskrat

The muskrat is a stocky rodent with a broad head, short legs, small eyes, and rich dark brown fur. Muskrats are chiefly nocturnal. Their principal food includes stems, roots, bulbs, and foliage of aquatic plants. They also feed on snails, mussels, crustaceans, insects, and fish. Usually three to five litters, averaging six to eight young per litter, are produced each year. Adult muskrats average one foot in length and three pounds in weight. The life expectancy is less than two years, with a maximum of four years. Muskrats can be found wherever there are marshes, swamps, ponds, lakes and streams having calm or very slowly moving water with vegetation in the water and along the banks.

Muskrats make their homes by burrowing into the banks of lakes and streams or by building "houses" of bushes and other plants. Their burrows begin from 6 to 18 inches below the water surface and penetrate the embankment on an upward slant. At distances up to 15 feet from the entrance, a dry chamber is hollowed out above the water level. Once a muskrat den is occupied, a rise in the water level will cause the muskrat to dig farther and higher to excavate a new dry chamber. Damage (and the potential for problems) is compounded where groundhogs or other burrowing animals construct their dens in the embankment opposite muskrat dens.

Muskrat Control

Barriers to prevent burrowing offer the most practical protection to earthen structures. A properly constructed riprap and filter layer will discourage burrowing. The filter and riprap should extend at least 3 feet below the water line. As the muskrat attempts to construct a burrow, the sand and gravel of the filter layer caves in and thus discourages den building. Heavy wire fencing laid flat against the slope and extending above and below the water line can also be effective. Eliminating or reducing aquatic vegetation along the shoreline will discourage muskrat habitation. Where muskrats have inhabited the area, trapping is usually the most practical method of removing them from a pond.

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Ohio Department of Natural Resources
Division of Water Fact Sheet

Fact Sheet 94–31

Dam Safety: Seepage Through Earthen Dams

Contrary to popular opinion, wet areas down stream from dams are not usually natural springs, but seepage areas. Even if natural springs exist, they should be treated with suspicion and carefully observed. Flows from ground-water springs in existence prior to the reservoir would probably increase due to the pressure caused by the pool of water behind the dam.

All dams have some seepage as the impounded water seeks paths of least resistance through the dam and its foundation. Seepage must, however, be controlled to prevent erosion of the embankment or foundation or damage to concrete structures.

Detection

Seepage can emerge anywhere on the downstream face, beyond the toe, or on the downstream abutments at elevations below normal pool. Seepage may vary in appearance from a "soft," wet area to a flowing "spring." It may show up first as an area where the vegetation is lush and darker green. Cattails, reeds, mosses, and other marsh vegetation often become established in a seepage area. Another indication of seepage is the presence of rust-colored iron bacteria. Due to their nature, the bacteria are found more often where water is discharging from the ground than in surface water. Seepage can make inspection and maintenance difficult. It can also saturate and weaken portions of the embankment and foundation, making the embankment susceptible to earth slides.

If the seepage forces are large enough, soil will be eroded from the foundation and be deposited in the shape of a cone around the outlet. If these "boils" appear, professional advice should be sought immediately. Seepage flow which is muddy and carrying sediment (soil particles) is evidence of "piping," and will cause failure of the dam. Piping can occur along a spillway and other conduits through the embankment, and these areas should be closely inspected. Sinkholes may develop on the surface of the embankment as internal erosion takes place. A whirlpool in the lake surface may follow and then likely a rapid and complete failure of the dam. Emergency procedures, including downstream evacuation, should be implemented if this condition is noted.

Seepage can also develop behind or beneath concrete structures such as chute spillways or headwalls. If the concrete structure does not have a means such as weep holes or relief drains to relieve the water pressure, the concrete structure may heave, rotate, or crack. The effects of the freezing and thawing can amplify these problems. It should be noted that the water pressure behind or beneath structures may also be due to infiltration of surface water or spillway discharge.

A continuous or sudden drop in the normal lake level is another indication that seepage is occurring. In this case, one or more locations of flowing water are usually noted downstream from the dam. This condition, in itself, may not be a serious problem, but will require frequent and close monitoring and professional assistance.

Control

The need for seepage control will depend on the quantity, content, and location of the seepage. Reducing the quantity of seepage that occurs after construction is difficult and expensive. It is not usually attempted unless the seepage has lowered the pool level or is endangering the embankment or appurtenant structures. Typical methods used to control the quantity of seepage are grouting or installation of an upstream blanket. Of these methods, grouting is probably the least effective and is most applicable to leakage zones in bedrock, abutments, and foundations. These methods must be designed and constructed under the supervision of a professional engineer experienced with dams.

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Ohio Department of Natural Resources
Division of Water Fact Sheet

Fact Sheet 99–52

Dam Safety: Upstream Slope Protection

Slope protection is usually needed to protect the upstream slope against erosion due to wave action. Without proper slope protection, a serious erosion problem known as "beaching" can develop on the upstream slope.

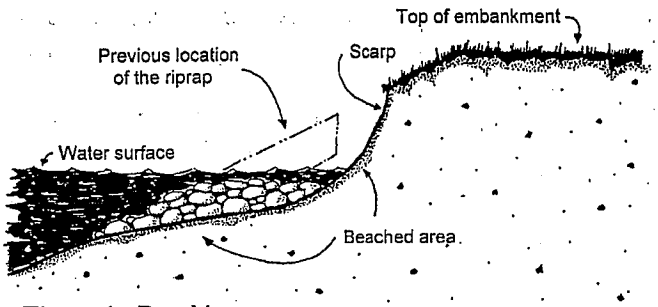

Figure 1 - Beaching

The repeated action of waves striking the embankment surface erodes fill material and displaces it farther down the slope, creating a "beach." The amount of erosion depends on the predominant wind direction, the orientation of the dam, the steepness of the slope, water level fluctuations, boating activities, and other factors. Further erosion can lead to cracking and sloughing of the slope which can extend into the crest, reducing its width. When erosion occurs and beaching develops on the upstream slope of a dam, repairs should be made as soon as possible. However, an erosion scarp less than 1 foot high may be stable and not require repair.

The upstream face of a dam is commonly protected against wave erosion by placement of a layer of rock riprap over a layer of bedding and a filter material. Other material such as concrete facing, soil-cement, fabri-form bags, slush grouted rocks, steel sheet piling, and articulated concrete blocks can also be used. Vegetative protection combined with a berm on the upstream slope can also be effective.

Rock Riprap

Rock riprap consists of a heterogeneous mixture of irregular shaped rocks placed over gravel bedding and a sand filter or geotextile fabric. The smaller rocks help to fill the spaces between the larger pieces forming an interlocking mass. The filter prevents soil particles on the embankment surface from being washed out through the spaces (or voids) between the rocks. The maximum rock size and weight must be large enough to break up the energy of the maximum anticipated wave action and hold the smaller stones in place. If the rock size is too small, it will eventually be displaced and washed away by wave action. If the riprap is sparse or if the filter or bedding material is too small, the filter material will wash out easily, allowing the embankment material to erode. Once the erosion has started, beaching will develop if remedial measures are not taken. Technical Release No. 69 developed by the USDA, Natural Resources Conservation Service can be used to help design engineers develop a preliminary or detailed design for riprap slope protection.

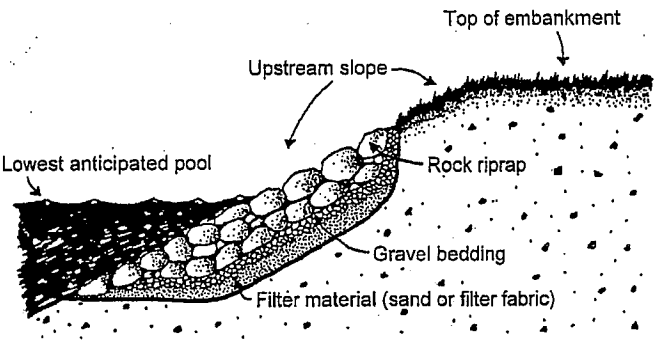

Figure 2 - Rock Riprap

The dam owner should expect some deterioration (weathering) of riprap. Freezing and thawing, wetting and drying, abrasive wave action, and other natural processes will eventually break down the riprap. Its useful life varies with the characteristics of the stone used. Stone for riprap should be rock that is dense and well cemented. In Ohio, glacial cobbles or boulders, most limestone, and a few types of sandstone are acceptable for riprap. Most sandstones and shales found in Ohio do not provide long-term protection. Due to the high initial cost of rock riprap, its durability should be determined by appropriate testing procedures prior to installation. Vegetative growth within the slope protection is undesirable because it can displace stone and disturb the filter material. Heavy undergrowth prevents an adequate inspection of the upstream slope and may hide potential problems. For additional information, see the "Trees and Brush" fact sheet.

Continued on back!

Ohio Department of Natural Resources
Division of Water Fact Sheet

Fact Sheet 93–26

Dam Safety: Lake Drains

A lake drain is a device to permit draining a reservoir, lake or pond. Division of Water Administrative Rule 1501:21-13-06 requires that all Class I, Class II and Class III dams include a lake drain.

Types of Drains

Common types of drains include the following:

- A valve located in the spillway riser.
- A conduit through the dam with a valve at either the upstream or downstream end of the conduit.
- A siphon system (Often used to retrofit existing dams).
- A gate, valve or stoplogs located in a drain control tower.

Uses of Drains

The following situations make up the primary uses of lake drains:

Emergencies: Should serious problems ever occur to threaten the immediate safety of the dam, drains may be used to lower the lake level to reduce the likelihood of dam failure. Examples of such emergencies are as follows: clogging of the spillway pipe which may lead to high lake levels and eventually dam overtopping, development of slides or cracks in the dam, severe seepage through the dam which may lead to a piping failure of the dam, and partial or total collapse of the spillway system.

Maintenance: Some repair items around the lake and dam can only be completed or are much easier to perform with a lower than normal lake level. Some examples are: slope protection repair, spillway repairs, repair and/or installation of docks and other structures along the shoreline, and dredging the lake.

Winter Drawdown: Some dam owners prefer to lower the lake level during the winter months to reduce ice damage to structures along the shoreline and to provide additional flood storage for upcoming spring rains. Several repair items are often performed during this winter drawdown period. Periodic fluctuations in the lake level also discourage muskrat and beaver habitation along the shoreline. Muskrat burrows in earthen dams can lead to costly repairs.

Common Maintenance Problems

Common problems often associated with the maintenance and operation of lake drains include the following:

- Deteriorated and bent control stems and stem guides.
- Deteriorated and separated conduit joints.
- Leaky and rusted control valves and sluice gates.
- Deteriorated ladders in control towers.
- Deteriorated control towers.
- Clogging of the drain conduit inlet with sediment and debris.
- Inaccessibility of the control mechanism to operate the drain.
- Seepage along the drain conduit.
- Erosion and undermining of the conduit discharge area because the conduit outlets significantly above the elevation of the streambed.
- Vandalism.
- Development of slides along the upstream slope of the dam and the shoreline caused by lowering the lake level too quickly.

Operation and Maintenance Tips

A. All gates, valves, stems and other mechanisms should be lubricated according to the manufacturer's specifications. If you do not have a copy of the specifications and the manufacturing company can not be determined, then a local valve distributor may be able to provide assistance.

B. The lake drain should be operated at least twice a year to prevent the inlet from clogging with sediment and debris, and to keep all movable parts working easily. Most manufacturers recommend that gates and valves be operated at least four times per year. Frequent operation will help to ensure that the drain will be operable when it is needed. All valves and gates should be fully opened and closed at least twice to help flush out debris and to obtain a proper seal. If the gate gets stuck in a partially opened position, gradually work the

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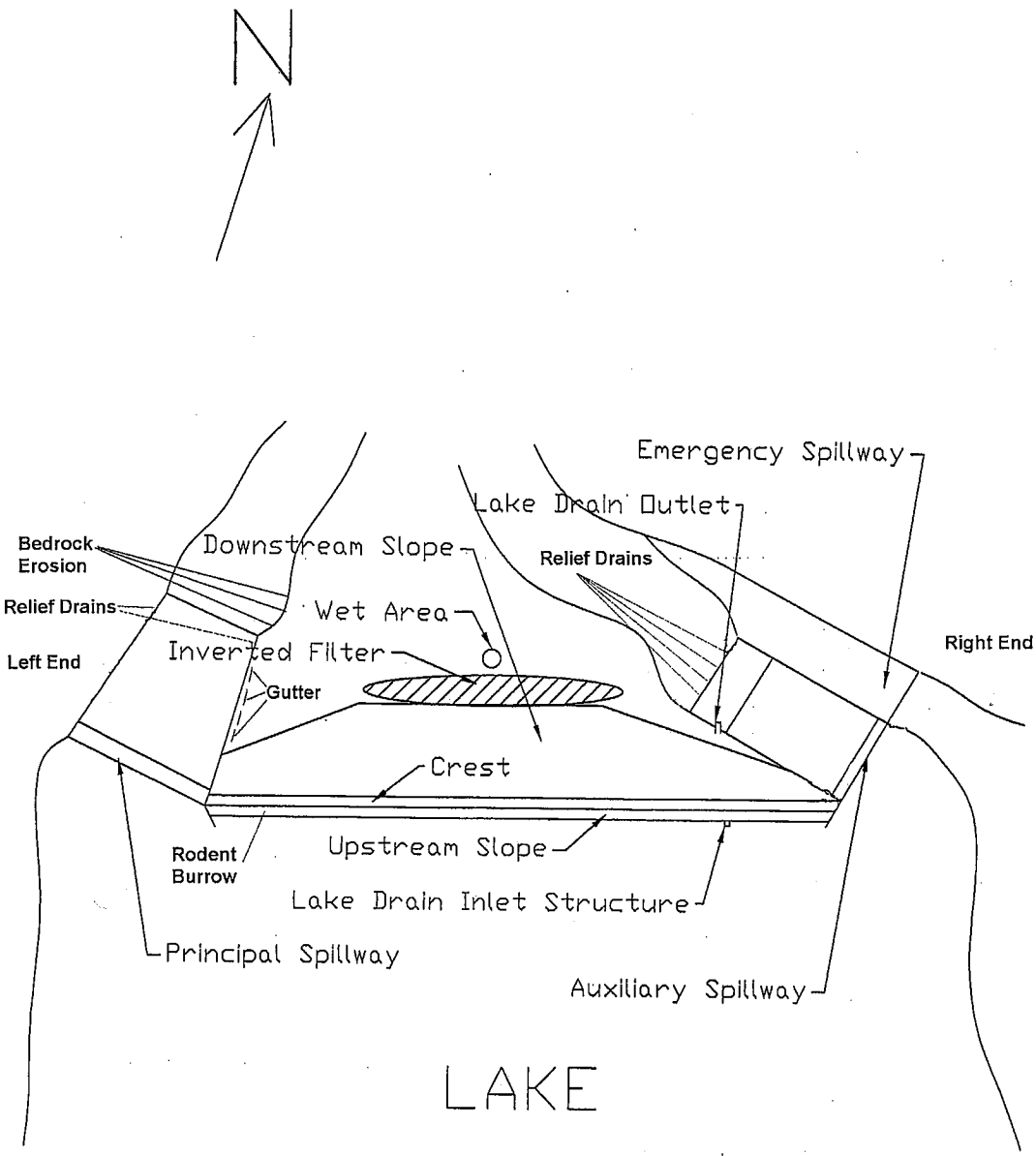
Section 2

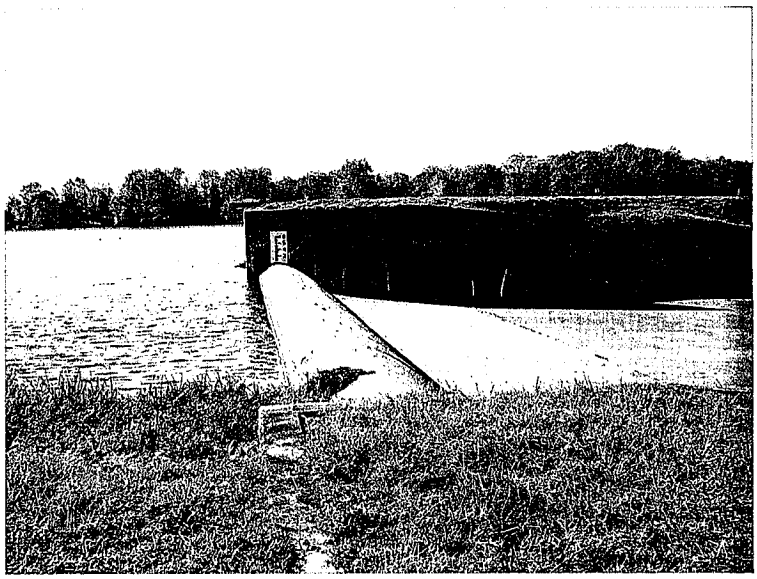
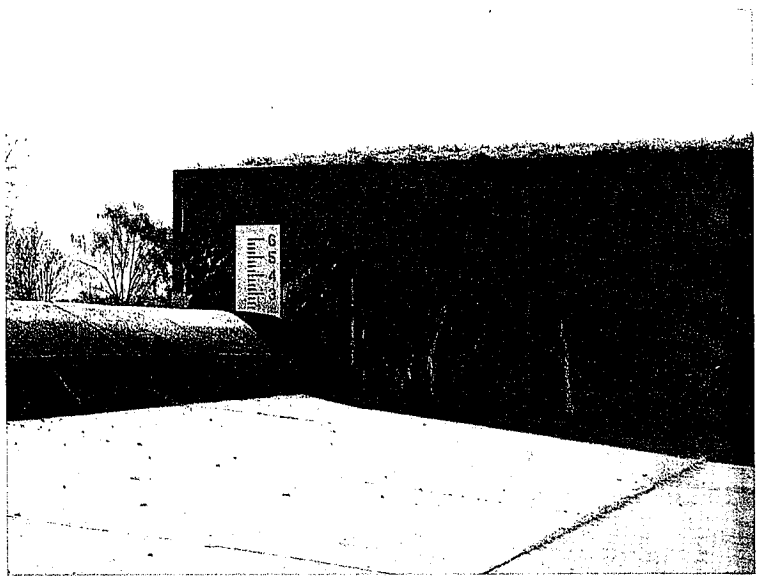
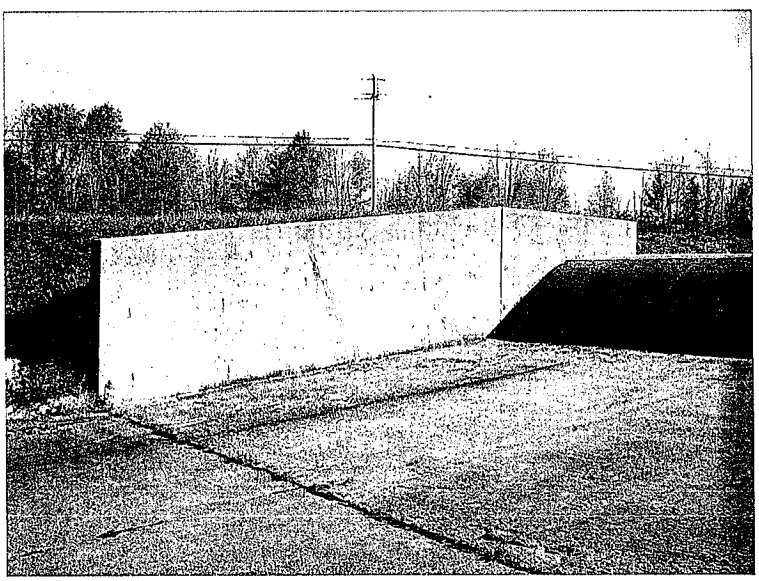


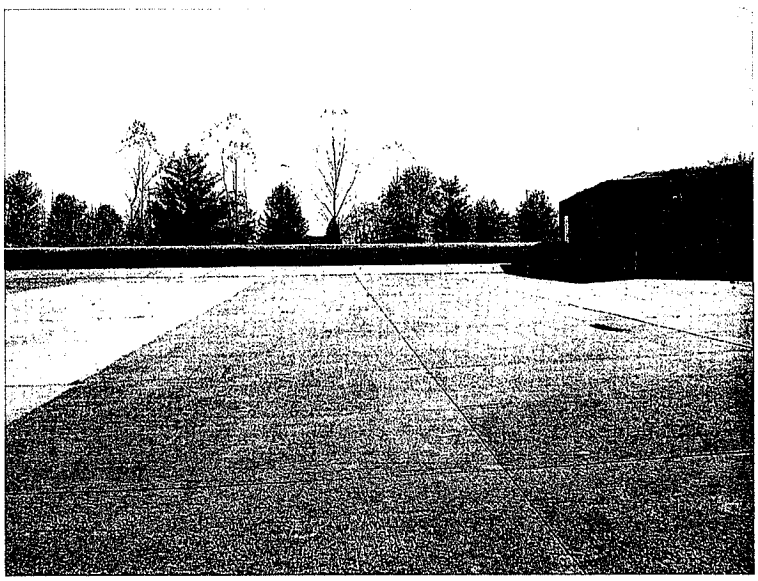
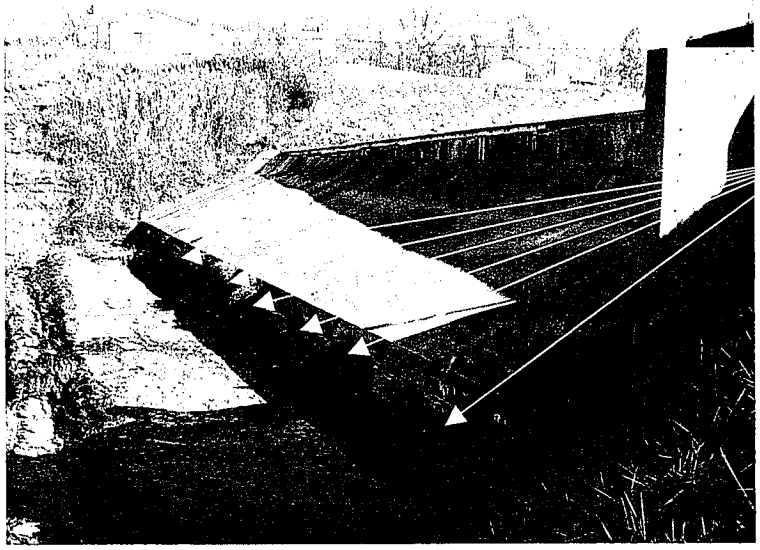
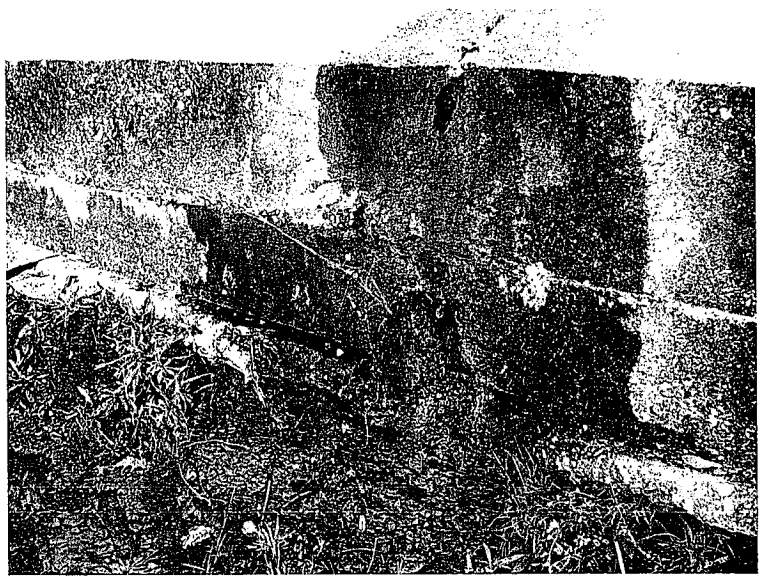
1 1

Roaming Rock Shores Lake Dam
Ashtabula County

OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
Dam Safety Engineering Program

Designed by:	N/A	File No.	1506-001
Drawn by:	MEM	Scale	NTS
Checked by:	RJT	Date	August 27, 2003
Revised by:	PMG	Revised	October 15, 2008

	Photograph No. 1: Upstream view of auxiliary spillway inlet from emergency spillway.
	Photograph No. 2: View of left sidewall of auxiliary spillway.
	Photograph No. 3: View of right sidewall of auxiliary spillway.

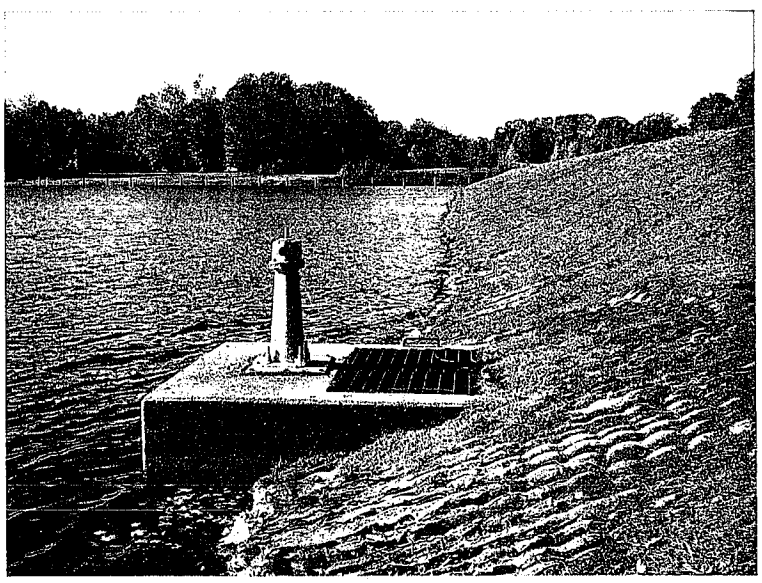
	Photograph No. 4: Facing upstream in the auxiliary spillway channel.
	Photograph No. 5: View of the auxiliary spillway chute outlet. Spillway under drainage weep holes are covered and plugged with vegetation.
	Photograph No. 6: Close-up view of one of the plugged weep holes at the end of the auxiliary spillway outlet.

Photograph No. 7:

Close-up view of another of the plugged weep holes at the end of the auxiliary spillway outlet.

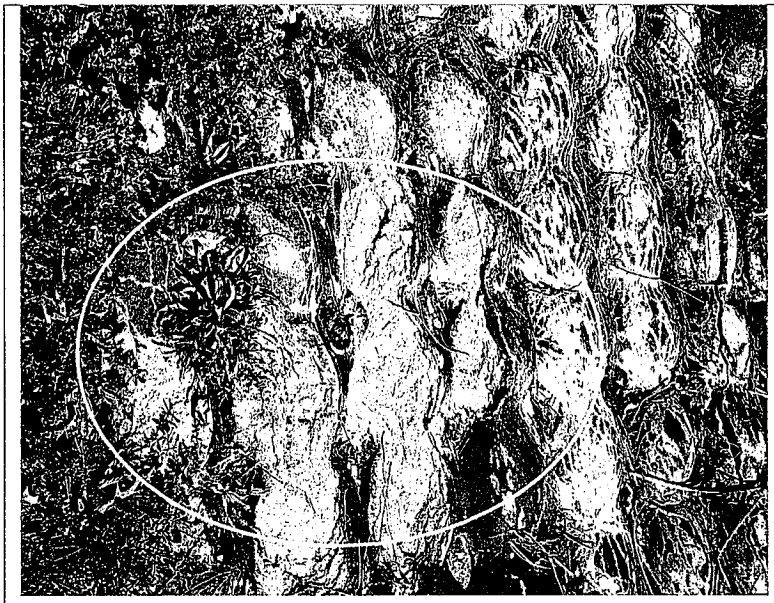
Photograph No. 8:

View of the upstream slope facing the emergency and auxiliary spillways.



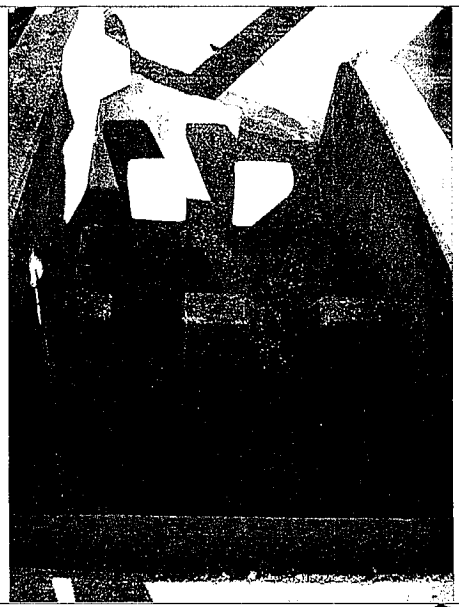
Photograph No. 9:

View of the upstream slope and lake drain inlet structure facing the principal spillway.



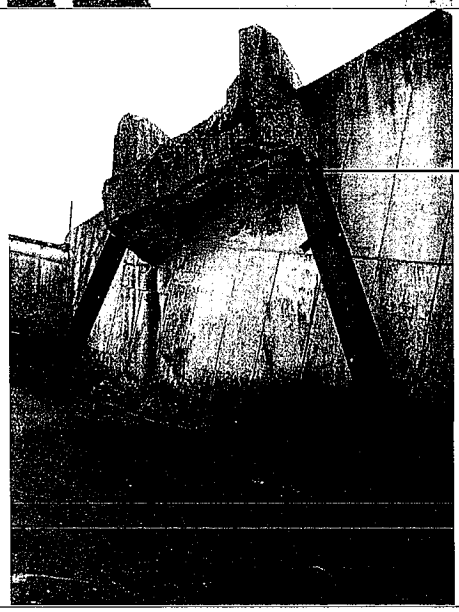
Photograph No. 10:

Close-up view of a portion of the upstream slope. Note the deterioration occurring of the fabric-form concrete slope protection.



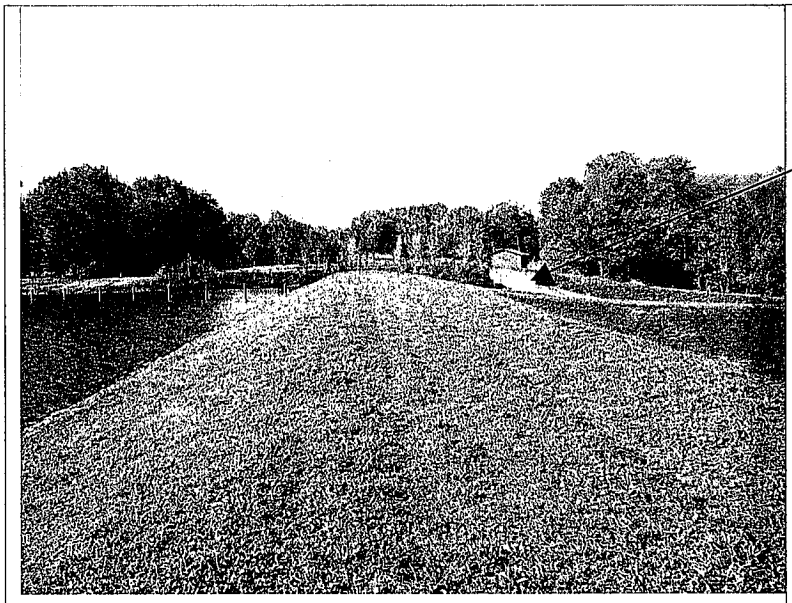
Photograph No. 11:

Overhead view of the lake drain outlet structure at the left end of the auxiliary spillway.



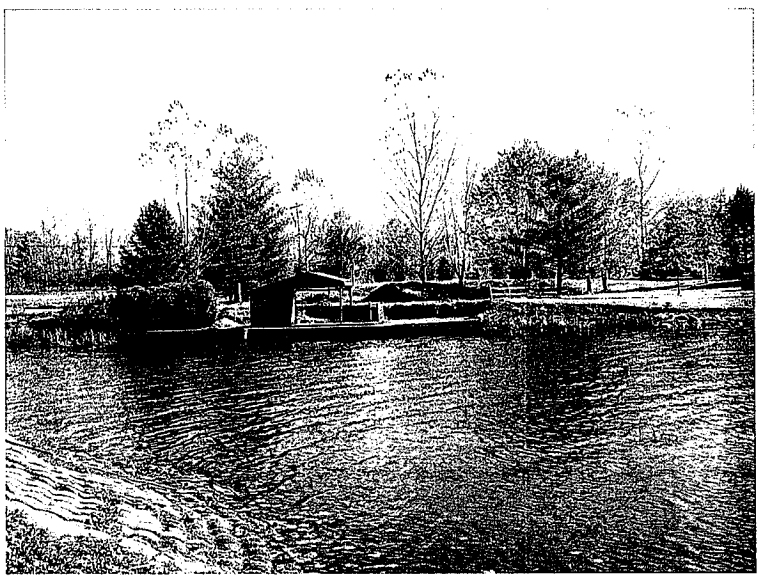
Photograph No. 12:

View of the lake drain outlet structure at the left end of the auxiliary spillway. Note the flow leaking from the structure.



Photograph No. 13:

View of the upstream slope, crest and principal spillway in the background.

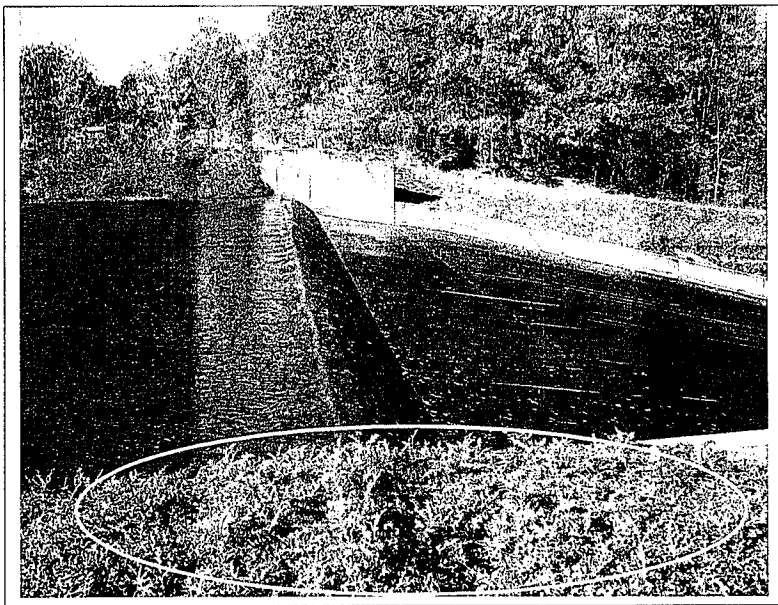


Photograph No. 14:

View of the right abutment and emergency spillway inlet.

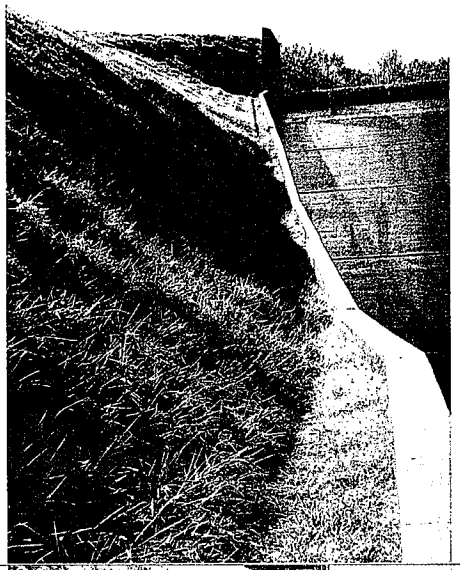
Photograph No. 15:

View of the auxiliary spillway inlet and emergency spillway channel in the background.



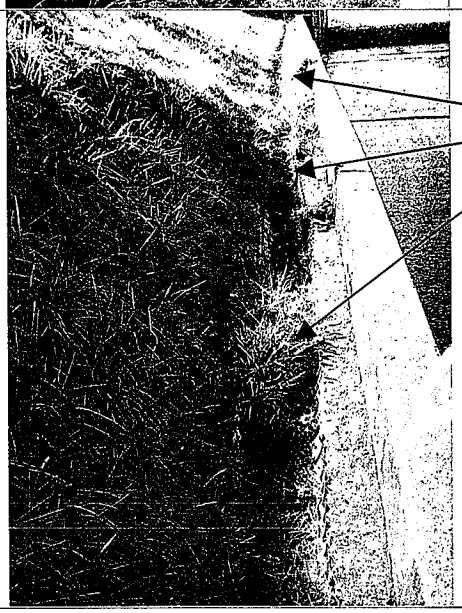
Photograph No. 16:

View of the principal spillway inlet, spillway channel and left sidewall. Note the thick crown vetch growing at the crest in the foreground.



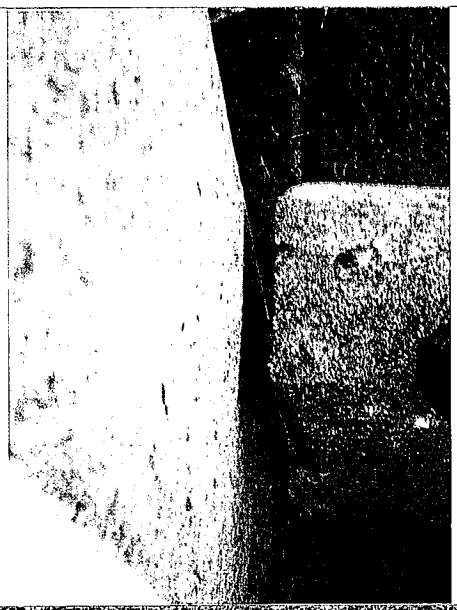
Photograph No. 17:

View of the right side wall of the principal spillway.



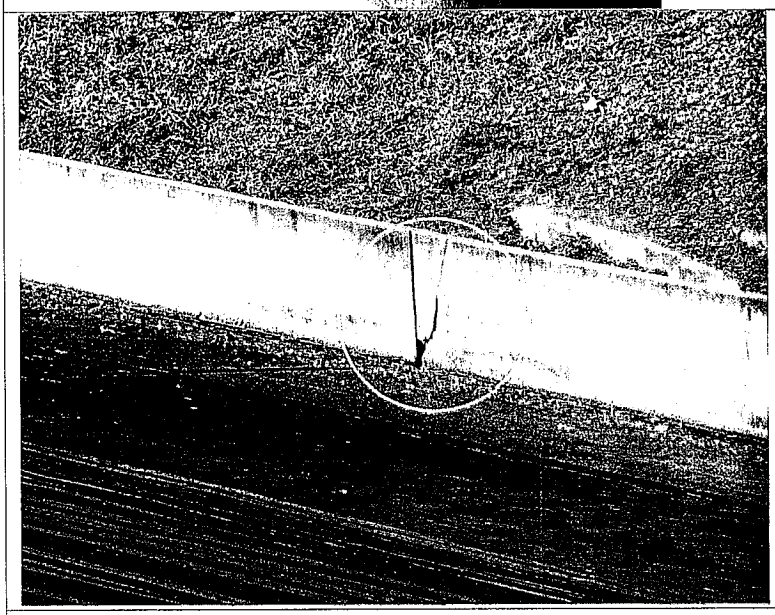
Photograph No. 18:

Note the plugged gutter drain with vegetation along much of the sidewall.



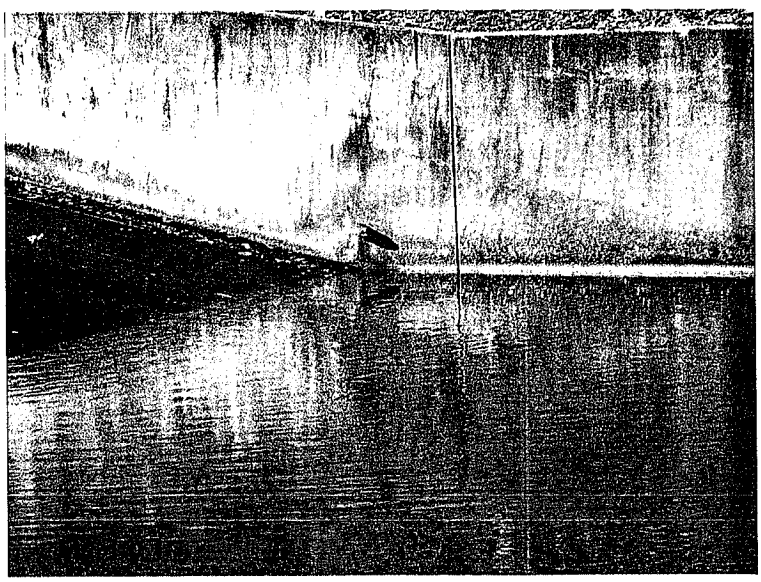
Photograph No. 19:

Note the gap (approx. 1") that exists in a section of vertical concrete in a portion of the right principal spillway sidewall.



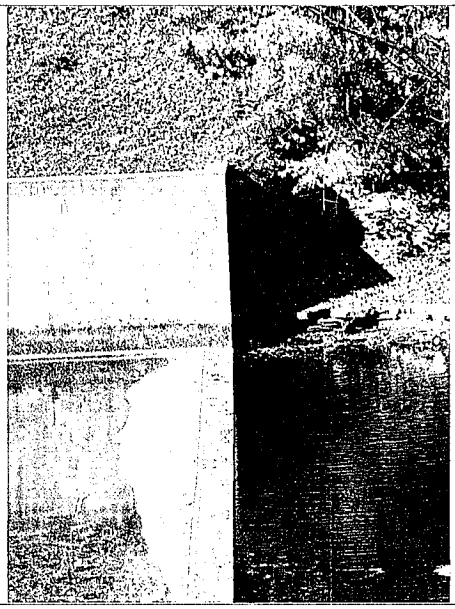
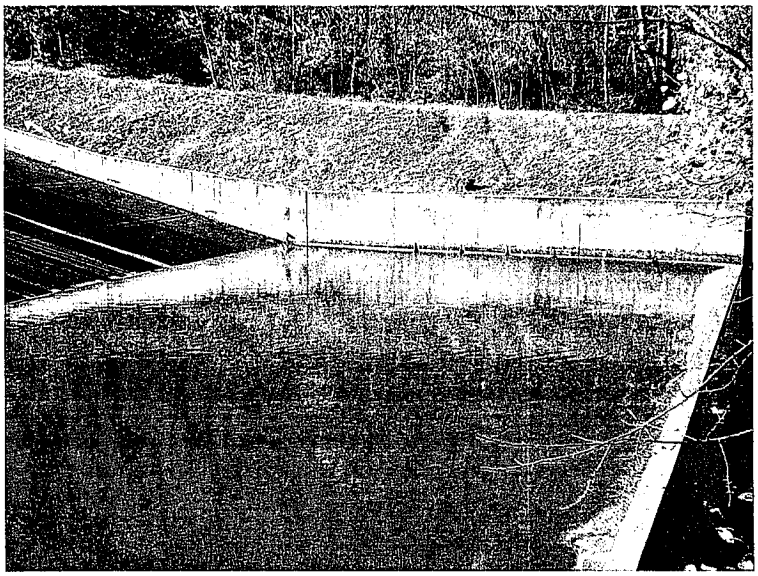
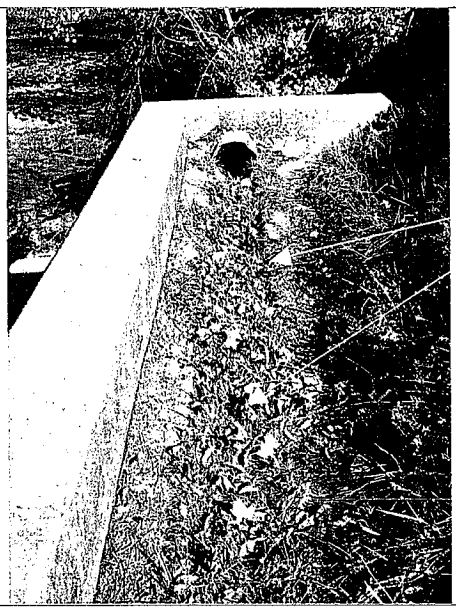
Photograph No. 20:

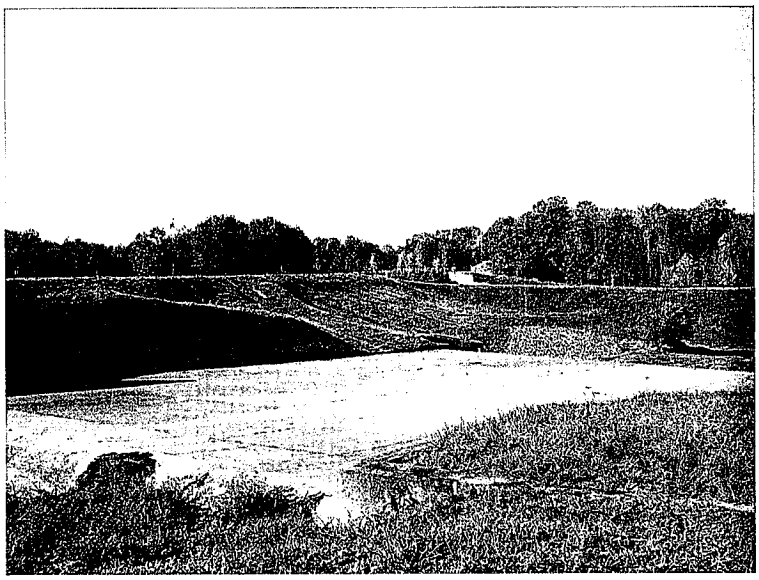
View of concrete deterioration and separation in a portion of the left sidewall of the principal spillway outlet.



Photograph No. 21:

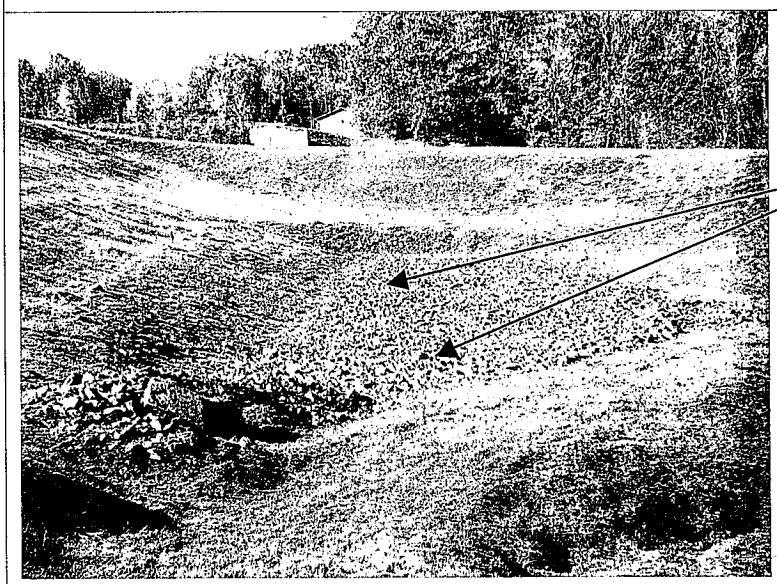
View of the corrugated outlet pipe to drain the collection of water behind the sidewall. The bottom of this pipe is rusted out. Investigate the integrity of the pipe.

	Photograph No. 22: View of the end of the left spillway sidewall.
	Photograph No. 23: View of the principal spillway outlet basin.
	Photograph No. 24: View of the end section of the right principal spillway sidewall. Note the plugged gutter drain.



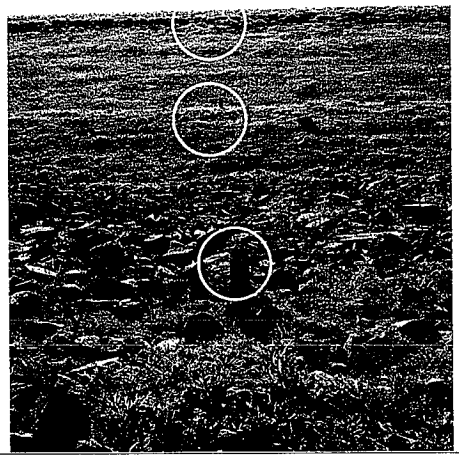
Photograph No. 25:

Overview of downstream slope and auxiliary spillway.



Photograph No. 26:

Overview of the inverted filter drainage system.



Photograph No. 27:

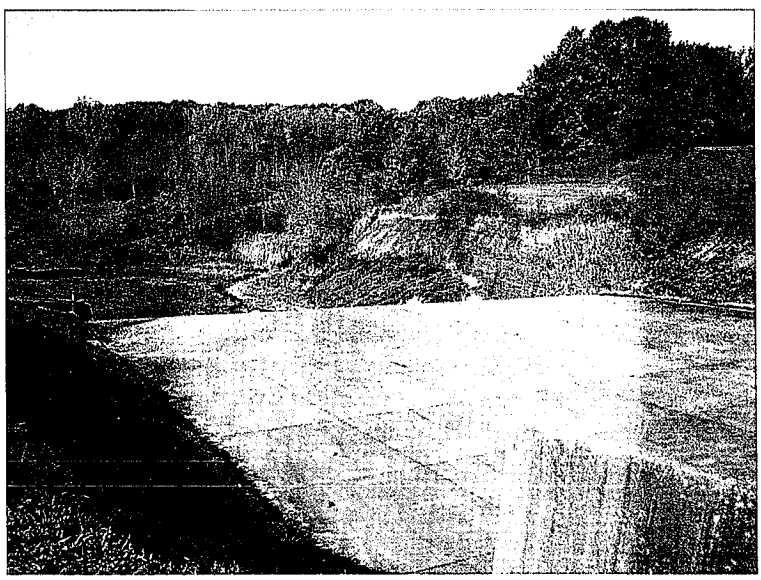
Note the three piezometers installed on the downstream slope.

Photograph No. 28:

Down-hole view of one of the piezometers.

Photograph No. 29:

Downstream view of the inverted filter drain and auxiliary spillway outlet.



Photograph No. 30:

Downstream view of the auxiliary spillway outlet channel.

Dam Classification Checklist

Name of Dam:	Roaming Rock Shores Lake Dam			File Number:	1506-001
County:	Ashtabula	Date:	October 15, 2008	Engineer:	PMG

The classification of a dam is based on three factors: the dam's height, storage capacity, and potential downstream hazard. The height of the dam is the vertical distance from the crest to the downstream toe. The storage capacity is the volume of water that the dam can impound at the top of dam (crest) elevation. The downstream hazard consists of roads, buildings, homes, and other structures that would be damaged in the event of a dam failure. Potential for loss of life is also evaluated. Various dam failure scenarios must be considered, and they include failures when the dam is at normal pool level and failures during significant flood events. Each of the three factors is evaluated, and the final classification of the dam is based on the highest individual factor. Class I is the highest and Class IV is the lowest. The classification of a dam can change based on future development along the downstream channel.

This checklist is intended to establish or verify the appropriate classification in accordance with the Ohio Administrative Code – it does not necessarily show all potential hazards or the full extent of inundation. In addition, elevations are estimated.

HEIGHT CLASSIFICATION	***STORAGE CLASSIFICATION***	***EXEMPT~NON-REGULATED***
Dam Height = 45.3 feet	Stor. Capacity (top of dam)= 12000 acre-feet	
____ > 60' - Class I	X > 5000 acre-feet - Class I	____ Height ≤ 6 feet
X > 40' - Class II	____ > 500 acre-feet - Class II	____ Storage ≤ 15 acre-feet
____ > 25' - Class III	____ > 50 acre-feet - Class III	____ 6 ft. < Height < 10 ft. &
____ ≤ 25' - Class IV	____ ≤ 50 acre-feet - Class IV	Stor. ≤ 50 ac-ft

Height Class:	II		
Storage Class:	I		
Hazard Class (see next page):	I	**Estimated Population at Risk:**	(none 1-5 6-15 16+)
Final Class:	I		

Class Changed (Yes, No)

POTENTIAL DOWNSTREAM HAZARD

I	II					III		IV	-	-				
Probable loss of human life	Loss of public water supply or wastewater treatment facility, release of health hazardous waste	Flooding of structure or high-value property	Damage to high-value or Class I, II, III dam or levee	Damage to major road (US or state route), disruption of only access to residential or critical facility area	Damage to railroad or public utility	Damage to rural building, not otherwise high-valued property, or Class IV dam or levee	Damage to local road (county and township)	Loss restricted mainly to the dam or agricultural /rural land	No hazard to structure noted	*No hazard assessment; further investigation needed*	Distance downstream of dam to affected structure (feet)	Vertical distance from streambed to base of affected structure (feet)	Horizontal distance from stream to affected structure (feet)	
							A				2700	30	0	Local Road
B											1000-7000	10 -20	100-500	Town (Rock Creek)
				C							6000	10	0	S.R 45

This checklist is intended to establish or verify the appropriate classification in accordance with the OAC – it does not necessarily show all potential hazards or the full extent of inundation.

Sketch of Developments Downstream of Dam

Flood Routing Summary

A dam must be able to safely pass severe flood events. A dam uses a combination of reservoir storage capacity and spillway discharge to prevent floodwater from overtopping the embankment crest. As part of this inspection, the Division of Water did not investigate the ability of this dam to safely pass the required design flood. In 2007, the Division of Water performed hydrologic and hydraulic calculations to estimate the size of the design flood and the total spillway discharge capacity of the dam. These calculations combined with the reservoir storage capacity were used in the flood routings to determine the maximum water surface elevation in the reservoir for various flood events (see Table I).

Roaming Rock Shores Lake Dam is a Class I dam; therefore, in accordance with OAC Rule 1501:21-13-02, the required design flood is 100% of the Probable Maximum Flood (PMF) or the critical flood. This dam and its spillway system must safely pass the design flood without overtopping the embankment crest. Flood routing calculations indicate that the dam can pass 100% of the PMF; Roaming Rock Shores Lake Dam appears to be able to safely pass the design flood.

Table I - Flood Routing Summary

Flood Event	Maximum Inflow (cubic feet per second)	Maximum WSEL[1] (feet)	Overtopping Depth[2] (feet)	Overtopping Duration (hours)
PMF	44379	861.0	0.0	0
75% PMF	33284	859.3	-1.7	0
50% PMF	22189	857.4	-3.6	0
25% PMF	11094	855	-6	0
12% PMF[3]	5325	853.2	-7.8	0

1. WSEL – water surface elevation, in feet above the mean sea level
2. A negative number indicates that the dam does not overtop and represents the elevation difference between the Maximum WSEL and the Top of Dam Elevation (freeboard)
3. 12% PMF is similar to the 100-year flood. The 100-year flood event has a 1% chance of occurring in any given year. This is only an approximation.

Top of Dam Elevation: 861.0 feet above msl
Emergency Spillway Elevation: 854.0 feet above msl
Normal Pool Elevation: 850.0 feet above msl

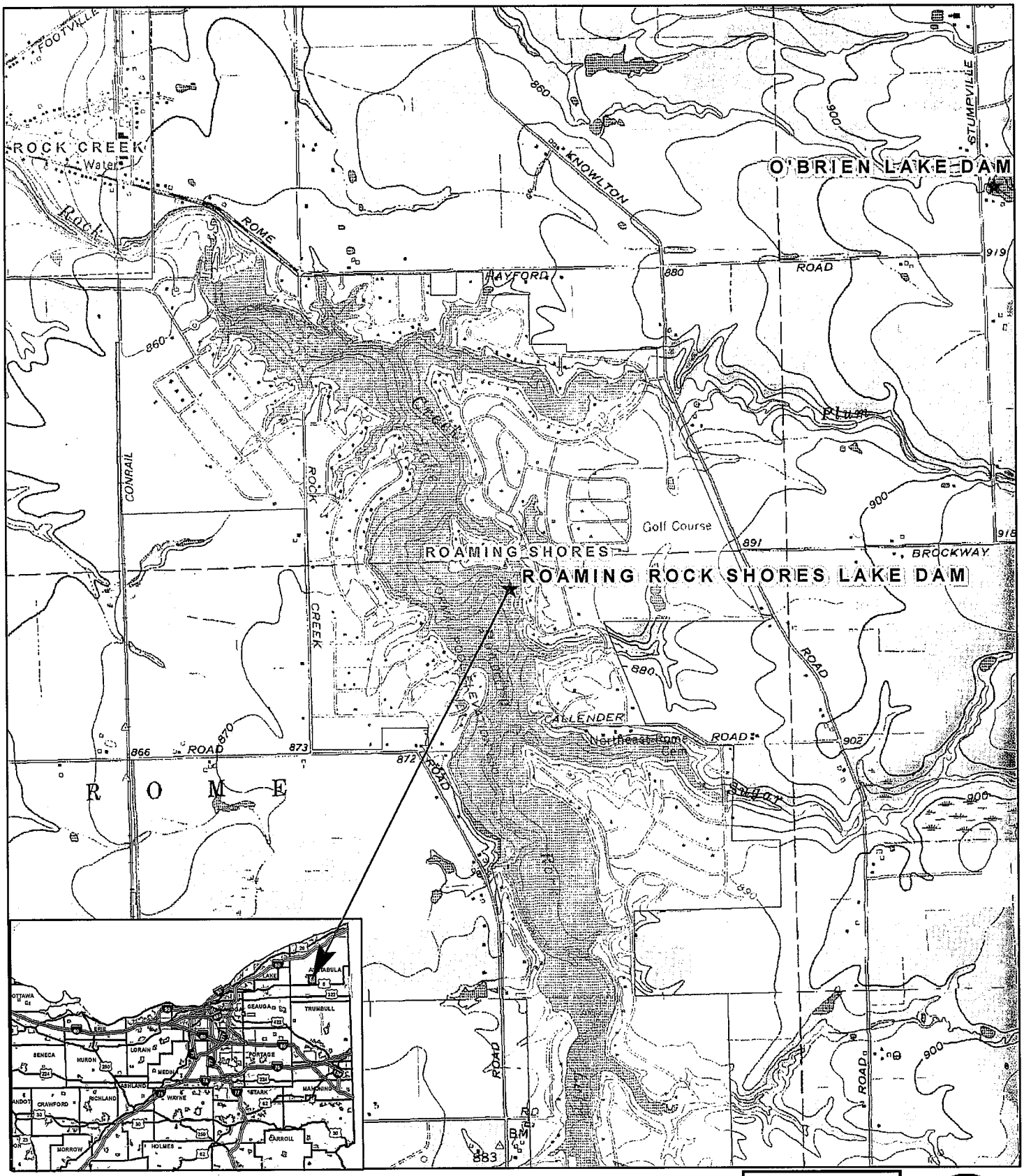
History of Roaming Rock Shores Lake Dam

Date	Event
1967	Dam constructed.
June 25, 1973	First ODNR, DOW dam safety inspection.
December 11, 1985	Second ODNR, DOW dam safety inspection.
1991	Crest leveled and emergency spillway widened
1993	Earth fill cap added under auxiliary spillway concrete
1996	Lake drain pipe sliplined
July 9, 1998	Third ODNR, DOW dam safety inspection
August 27, 2003	Fourth ODNR, DOW dam safety inspection
October 15, 2008	Fifth ODNR, DOW dam safety inspection
February 6, 2009	Approved the Emergency Action Plan and Operation, Maintenance, and Inspection Manual.

Section 3

LOCATION MAP

ROAMING ROCK SHORES LAKE DAM - 1506-001



Feb 28, 2007

Dam Inventory Sheet

Name: ROAMING ROCK SHORES LAKE DAM
File No: 1506-001
National #: OH00397
Reservoir:
Permit No.: 67-021
Class (Ht-Vol): I (II - I)

Owner Information

Owner: Village of Roaming Shores
Owner Type: Public, Local
Address: PO Box 237
Multi-Dams: -
Parcel No.:
City: Roaming Shores **State:** OH **Zip:** 44084
Contact: Mayor, Carl Biats, Jr. **Phone No.:** 440/563-5083

Location Information

County: Ashtabula **Latitude Deg.:** 41 **Min.:** 39 **Sec.:** 16
Township: Morgan **Longitude Deg.:** 80 **Min.:** 50 **Sec.:** 22
Stream Rock Creek
Nearest Affected Community: Rock Creek
Community's Distance from Dam (miles): 0.4
USGS Quad.: Jefferson **USGS Basin No.:** 04110004

Design/Construction Information

Designed By: Research, Planning & Design Associates, St. Louis, Mo.
Constructed By: Koski Construction Company, Ashtabula, Ohio
Completed: 1967 **Plan Available:** YES **At:** ODNR, DIVISION OF WATER
Failure/Incident/Breach:

Structure Information

Purpose: Recreation, Private
Type of Impound.: Dam And Spillway
Type of Structure: Earthfill
Drainage Area (sq. miles): 73.5 **or (acres):** 47040

Embankment Data

Length (ft): 730 **Upstream Slope:** 3H:1V
Height (ft): 45.3 **Downstream Slope:** 2.5H:1V
Top Width (ft): 20 **Volume of Fill (cub. yds.):** 159300

Spillway Outlet Works Data

Lake Drain: 36-IN CMP & SLUICE GATE W/INVERT @ ELEV. 840
Principal: 180-FT-WIDE OGEE-SHAPED WEIR DISCHARGING INTO 250-FT LONG CONCRETE CH
Emergency: 80-FT WIDE OPEN CHANNEL @ ELEV. 854.0
Maximum Spillway Discharge (cfs) 55678 **Design Flood:** 1.0 **Flood Capacity** 1.0

Dam Reservoir Data	Elevation (ft-MSL)*	Area (acres)	Storage (acre-feet)
Top of Dam:	861	800	12000
Emergency Spillway:	854	595	8300
Principal Spillway:	850	460	6091
Streambed:	813		
Foundation:			

*Elevations are not necessarily related to a USGS benchmark

Inspection Information

Inspection History:
10/15/2008 PMG
8/27/2003 MEM
7/9/1998 EMK
12/11/1985
6/25/1973

Phase I:
Other Visits: 4/15/96

Next Planned Inspection: 2008-2009 B - Special Trip

Operation Information/Remarks

3 spillways - Data on P/S & E/S noted above; Aux spillway 110-ft-wide ogee-shaped weir discharging into asphalt & concrete chute w/elev 852.0, area 530-ac, capacity 7200-af

Emergency Action Plan: Yes **Format:** ICODS **OMI:** Yes-on file
Annual Fee: $483.00 **Last Entry:** 2/10/2009

Dam Safety Inspection Checklist

Complete All Portions of This Section (Pre-inspection)

Name of Dam: Roaming Rock Shores Lake Dam — Ashtabula County

Date of Inspection: October 15, 2008 — Required Action: None ☒ Mon. ☐ Maint. ☐ Eng. ☐

File Number: 1506-001

Class: I — Design Flood: 1.0 — Flood Capacity: 1.0

Interview with Owner (at the site):

Owner/Representative present: (Yes, No) Name(s): Bob Gregery, Jim Bentley, Bob Cook, John Boll

Owner's Name(s): Village of Roaming Shores — Rock Pinkert, Joe Palumby

Address: PO Box 237, ,

City: Roaming Shores — State: OH — Zip (+4): 44084

Contact Person: Mayor, Carl Biats, Jr. — Telephone: 440/563-5083

Email Address: Rocky Pinkert - rocky@roamingshores.org

Purpose of dam: Recreation, Private

Owner Dam Safety Program

Emergency Action Plan

EAP (document): Yes ~~OLD~~ ICODS — Up-to-date? (yes, no) ☒ ☐ ☐ ☐

Exercised: Not exercised

Downstream development: No changes

Security: No changes

Operation, Maintenance, and Inspection

OMI (document): Yes-on fil Needs revision — Up-to-date? (yes, no) ☒ ☐ ☐ ☐

Operation of drains/gates

All operable? (yes, no) Opened gate early in 2008

Normal rate of drawdown: 1 ft. per week (4 ft.) — Emerg. rate of drawdown: NA

Accessibility for operation: No problem

Maintenance

Frequency of mowing: 2 x per week during growing season

Other maintenance: Tree + brush removed from principal spillway sidewalls

Inspection

Frequency and thoroughness of day-to-day & routine inspections: No day to day. Routine inspections by Mr. Pinkert.

Frequency and thoroughness of event-driven inspections: No problems

Problems found during inspections: Rodent burrows

Field Information

Pool Elevation (during inspection): 8 inches below Normal Pool — Time: 2:30 (a.m. p.m.)

Site Conditions(temp., weather, ground moisture): 65°, sunny, dry

Inspection Party: P. George + T. Lagucki

Maximum Height: 45.3 Feet (measured or inventory appears correct)

Normal Pool Surface Area: 460 Acres (measured or inventory appears correct)

Blanket drain (silty sand and trace gravel) into rock riprap toe with no pipe outlet; Three piezometers (crest and toe o.k., mid-slope is silted)	3 Spillways - Data On P/s & E/s Noted Above; Aux Spillway 110-ft-wide Ogee-shaped Weir Discharging Into Asphalt & Concrete Chute W/elev 852.0, Area 530-ac, Capacity 7200-af

Action

None | Monitor | Maintenance | Engineer

UPSTREAM SLOPE

Gradient: Horizontal: 3 Vertical: 1 (est) meas.)

☒ ***VEGETATION*** [no problem] ☐ ☐ ☐ ☐

☐ Trees: Quantity: (<5, sparse, dense) ☐ ☐ ☐ ☐
Diameter: (<6", 6-12", >12")
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)
Notes:

☐ Brush: Quantity: (sparse, dense) ☐ ☐ ☐ ☐
Location:(adj. to structure, entire slope, lt end, rt end, middle, see dwg)
Notes:

☒ Ground Cover: Type: (grass) (crown vetch) Other: ☒ ☐ ☐ ☐
Quantity: (bare, sparse (adequate) dense)
Appearance: (too tall, too short, (good))
Notes: Crown vetch was noted along slope

☒ ***SLOPE PROTECTION*** [no problem, could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ None ☐ ☐ ☐ ☐
☐ Riprap: Average Diameter:
(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)
Notes:

☐ Wave Berm: ☐ ☐ ☐ ☐
Vegetation: (adequate, bare, sparse, improper vegetation)
Notes:

☐ Concrete Slabs: (cracked, settlement, undermined, voids, deteriorated, vegetation) ☐ ☐ ☐ ☐
Notes:

☒ Other: FABRIFORM (GROUT BAGS) WERE IN ADEQUATE CONDITION. SOME ☐ ☒ ☐ ☐
Notes: DETERIORATION WAS NOTED AT THE NORMAL POOL WATER LINE. APPEARS UNCHANGED FROM 2003 INSPECTION REPORT

☒ ***EROSION*** (no problem) could not inspect thoroughly]

☐ Wave Erosion (Beaching): Scarp: Length: Height: ☐ ☐ ☐ ☐
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)
Notes:

☐ Runoff Erosion (Gullies): Quantity: ☐ ☐ ☐ ☐
Depth: Width: Length:
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)
Notes/Causes:

☒ ***INSTABILITIES*** (no problem) could not inspect thoroughly]

☐ Slides: Transverse Length: Longitudinal Length: ☐ ☐ ☐ ☐
Scarp: Width: Length:
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)
Crack: Width: Depth:
Notes/Causes:

☐ Cracks: ☐ Transverse ☐ Longitudinal ☐ Other ☐ ☐ ☐ ☐
Quantity: Length: Width: Depth:
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)
Notes/Causes:

None | Monitor | Maintenance | Engineer

Required Action

Required Action

None Monitor Maintenance Engineer

☐ Cracks: ☐ Transverse ☐ Longitudinal ☐ Other ☐ ☐ ☐ ☐
Quantity: ____ Length: ____ Width: ____ Depth: ____
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) ____
Notes/Causes: ____

☐ Bulges ☒ Depressions ☐ Hummocky ☒ ☐ ☐ ☐
Size: ____ Height: ____ Depth: ____
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) NEXT TO PRINCIPAL SPILLWAY
Notes/Causes: THIS AREA HAS BEEN NOTED DURING THE DIVISION OF WATER 1998 & 2003 DAM SAFETY INSPECTION. AREA APPEARS UNCHANGED.

☐ Bulges ☐ Depressions ☐ Hummocky ☐ ☐ ☐ ☐
Size: ____ Height: ____ Depth: ____
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) ____
Notes/Causes: ____

☒ *OTHER* [no problem, could not inspect thoroughly]
☒ Rodent Burrows: (few, numerous) ☐ ☐ ☒ ☐
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) 75 feet from Principal Spillway Inlet
Notes: Only found this one near Principal Spillway inlet

☐ Ruts: ☐ ☐ ☐ ☐
Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) ____
Depth: ____ Width: ____ Length: ____
Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian) ____

☐ Other: ☐ ☐ ☐ ☐
Notes: ____

CREST

Length: 730 feet Width: 20 feet (est, meas.) Inventory appears correct.

☒ *VEGETATION* [no problem] ☐ ☐ ☐ ☐
☐ Trees: Quantity: (<5, sparse, dense)
Diameter: (<6", 6-12", >12") ____
Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg) ____
Notes: ____

☐ Brush: Quantity: (sparse, dense) ☐ ☐ ☐ ☐
Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg) ____
Notes: ____

☒ Ground Cover: Type: (grass, crown vetch) Other: ☒ ☐ ☐ ☐
Quantity: (bare, sparse, adequate, dense) ____
Appearance: (too tall, too short, good) ____
Notes: Crown vetch was noted in patches along crest

☒ *EROSION* (no problem) could not inspect thoroughly]
☐ Runoff Erosion (Gullies): Quantity: ____ Depth: ____ Width: ____ Length: ____ ☐ ☐ ☐ ☐
Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)
Notes/Causes: ____

None Monitor Maintenance Engineer

Required Action

Action

None | Monitor | Maintenance | Engineer

☒ ***ALIGNMENT*** [no problem] could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ Vertical: ☐ Low Area:

Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)

Elevation Difference: Length:

Notes/Causes:

☐ ☐ ☐ ☐

☐ Horizontal:

Notes/Causes:

☒ ***WIDTH*** (no problem)

☐ Too Narrow ☐ ☐ ☐ ☐

Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)

Notes/Causes:

☒ ***INSTABILITIES*** [no problem] could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ Cracks: ☐ Transverse ☐ Longitudinal ☐ Other

Quantity: Length: Width: Depth:

Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)

Notes/Causes:

☐ Cracks: ☐ Transverse ☐ Longitudinal ☐ Other ☐ ☐ ☐ ☐

Quantity: Length: Width: Depth:

Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)

Notes/Causes:

☐ Bulges ☐ Depressions ☐ Hummocky ☐ ☐ ☐ ☐

Size: Height: Depth:

Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)

Notes/Causes:

☐ Bulges ☐ Depressions ☐ Hummocky ☐ ☐ ☐ ☐

Size: Height: Depth:

Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)

Notes/Causes:

☒ ***OTHER*** [no problem] could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ Rodent Burrows: (few, numerous)

Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)

Notes:

☐ Ruts: ☐ ☐ ☐ ☐

Location: (adj. to structure, entire crest, lt end, rt end, middle, see dwg)

Depth: Width: Length:

Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian)

☐ ☐ ☐ ☐

☐ Other:

Notes:

None | Monitor | Maintenance | Engineer

Required Action

Required Action

DOWNSTREAM SLOPE Gradient: Horizontal: 2.5 Vertical: 1.0 (est) meas.)

INVENTORY APPEARS CORRECT

None Monitor Maintenance Engineer

☒ ***VEGETATION*** [no problem]

☐ Trees: Quantity: (<5, sparse, dense) ☐ ☐ ☐ ☐

Diameter: (<6", 6-12", >12")

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)

Notes:

☐ Brush: Quantity: (sparse, dense) ☐ ☐ ☐ ☐

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)

Notes:

☒ Ground Cover: Type: (grass) (crown vetch) Other: ☒ ☐ ☐ ☐

Quantity: (bare, sparse, (adequate) dense)

Appearance: (too tall, too short (good))

Notes: Crown vetch was sparsely noted along the slope

☒ ***EROSION*** [(no problem) could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ Runoff Erosion (Gullies): Quantity: Depth: Width: Length:

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)

Notes/Causes:

☒ ***INSTABILITIES*** [(no problem) could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ Slides: Transverse Length: Longitudinal Length:

Scarp: Width: Length:

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)

Crack: Width: Depth:

Notes/Causes:

☐ ☐ ☐ ☐

☐ Cracks: ☐ Transverse ☐ Longitudinal ☐ Other

Quantity: Length: Width: Depth:

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)

Notes/Causes:

☐ ☐ ☐ ☐

☐ Cracks: ☐ Transverse ☐ Longitudinal ☐ Other

Quantity: Length: Width: Depth:

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)

Notes/Causes:

☐ ☐ ☐ ☐

☐ Bulges ☐ Depressions ☐ Hummocky

Size: Height: Depth:

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)

Notes/Causes:

☐ ☐ ☐ ☐

☐ Bulges ☐ Depressions ☐ Hummocky

Size: Height: Depth:

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg)

Notes/Causes:

None Monitor Maintenance Engineer

Required Action

Required Action

None | Monitor | Maintenance | Engineer

☒ *OTHER* (no problem; could not inspect thoroughly) ☐ ☐ ☐ ☐

☐ Rodent Burrows: (few, numerous) .....

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) .....

Notes: ..... ☐ ☐ ☐ ☐

☐ Ruts:

Location: (adj. to structure, entire slope, lt end, rt end, middle, see dwg) .....

Depth: ..... Width: ..... Length: .....

Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian): ..... ☐ ☐ ☐ ☐

☐ Other: .....

Notes: .....

☒ *SEEPAGE* [no problem, could not inspect thoroughly]

☒ Wet Area ☐ Flow ☐ Boil ☐ Sinkhole ☐ ☒ ☐ ☐

Flow Rate NONE Size: 50 FEET by 25 FEET

Location: Downstream of INVERTED Filter

☐ Aquatic Vegetation ☒ None

☐ Rust Colored Deposits ☒ None

☐ Sediment in Flow ☒ None

☐ Other:

Notes/Causes: Area is WET AFTER HEAVY RAINS. AREA could be Seepage or trap surface runoff (According to owner representatives)

☐ Wet Area ☐ Flow ☐ Boil ☐ Sinkhole ☐ ☐ ☐ ☐

Flow Rate Size:

Location:

☐ Aquatic Vegetation ☐ None

☐ Rust Colored Deposits ☐ None

☐ Sediment in Flow ☐ None

☐ Other:

Notes/Causes:

☒ *EMBANKMENT DRAINS* [none, none found, no problem, could not inspect thoroughly]

Type: ☐ Toe Drain ☐ Relief Wells ☐ Other: INVERTED GRAVEL FILTER ☒ ☐ ☐ ☐

Flow Rate: NO FLOW Size: VARIES Number: 1

Location: DOWNSTREAM TOE

Notes: INVERTED FILTER IS LOCATED AT THE DOWNSTEAM TOE OF THE EMBANKMENT.

☒ *MONITORING INSTRUMENTATION* [none, none found, no problem, could not inspect thoroughly]

☐ None Found ☒ Piezometers ☐ Weirs/Flumes ☐ Other ☒ ☐ ☐ ☐

☐ Periodic Inspections by:

Notes: Three piezometers were noted on the downstream slope. Currently owner is evaluating them and preparing a inspection program.

None | Monitor | Maintenance | Engineer

Required Action

Required Action:

PRINCIPAL SPILLWAY LEFT ABUTMENT

☒ *GENERAL INLET* [no problem, could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ Anti-Vortex Plate [None] Dimensions: (adequate, too small,)
Type: (steel, concrete, aluminum, stainless steel, corrugated metal, wood, other):
Deterioration: (missing sections, rusted, collapsed)
Notes:

☐ ☐ ☐ ☐

☐ Flash Boards [None]
Type: (metal, wood):
Deterioration:
Notes:

☐ Trashrack [None] Opening Size: (adequate, too small, too large)
Type: (metal bars, fence, screen, concrete, baffle, other):
Deterioration: (broken bars, missing sections, rusted, collapsed)
Notes:

☐ ☐ ☐ ☐

☒ *INLET OBSTRUCTION* [no problem, could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ Debris: (leaves, trash, logs, branches, ice)

☐ Trees: Quantity: (<5, sparse, dense) ☐ ☐ ☐ ☐
Diameter: (<6", 6-12", >12")
Location: (entire inlet, lt side, rt side, middle, see dwg)
Notes:

☐ Brush: Quantity: (sparse, dense) ☐ ☐ ☐ ☐
Location: (entire inlet, lt side, rt side, middle, see dwg)
Notes:

☐ Other:(beaver activity, trashrack opening too small, partially/completely blocked, i.e.) ☐ ☐ ☐ ☐

Notes:

☒ *INLET MATERIALS* [no problem, could not inspect thoroughly]

☐ Metal
(loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out, pipe deformation) ☐ ☐ ☐ ☐

Dimensions:
Location:
Notes/Causes:

☒ Concrete
(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐
(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐
(isolated crack, exposed rebar, disintegration, other) ☒ ☐ ☐ ☐
Dimensions/Location:
Notes/Causes: Concrete appeared in good condition

(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐
(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐
(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐
Dimensions/Location:
Notes/Causes:

☐ Plastic
(deterioration, cracking, deformation) ☐ ☐ ☐ ☐
Dimensions:
Location:
Notes/Causes:

Action: None | Monitor | Maintenance | Engineer

☐ Earthen
- ☐ Ground Cover: Type: (grass, crown vetch) Other: ☐ ☐ ☐ ☐
  - Quantity: (bare, sparse, adequate, dense)
  - Appearance: (too tall, too short, good)
  - Notes:
- ☐ Erosion: (wave, surface runoff) ☐ ☐ ☐ ☐
  - Description (height/depth/length/etc):
  - Notes:
- ☐ Ruts: ☐ ☐ ☐ ☐
  - Location: (entire inlet, lt side, rt side, middle, see dwg)
  - Depth: Width Length:
  - Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian)
- ☐ Riprap: Average Diameter: ☐ ☐ ☐ ☐
  - (adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)
  - Notes:
- ☐ Rock-Cut (weathered, erosion) ☐ ☐ ☐ ☐
  - Description:
  - Notes:
- ☐ Other: ☐ ☐ ☐ ☐

☒ *OTHER INLET PROBLEMS* (no problem) could not inspect thoroughly]
- ☐ Mis-Alignment: (pipe, chute, sidewall, headwall) ☐ Pipe Deformation ☐ ☐ ☐ ☐
  - Location/Description:
  - Notes/Causes:
- ☐ Separated Joint ☐ Loss of Joint Material ☐ ☐ ☐ ☐
  - Location/Description:
  - Notes/Causes:
- ☐ Undermining: ☐ ☐ ☐ ☐
  - Location/Description:
  - Notes/Causes:
- ☐ Other: ☐ ☐ ☐ ☐

☒ *OPEN CHANNEL CONTROL SECTION* [no problem, could not inspect] Width 180 ft (est.) ms.) Brdth 2 ft (est.) ms.) ☒ ☐ ☐ ☐
- Notes: Concrete ogee shaped weir appeared in good condition

☒ *OUTLET OBSTRUCTION* (no problem) could not inspect thoroughly]
- ☐ Debris: (leaves, trash, logs, branches, ice) ☐ ☐ ☐ ☐
- ☐ Trees: Quantity: (<5, sparse, dense) ☐ ☐ ☐ ☐
  - Diameter: (<6", 6-12", >12")
  - Location: (entire outlet, lt side, rt side, middle, see dwg)
  - Notes:
- ☐ Brush: Quantity: (sparse, dense) ☐ ☐ ☐ ☐
  - Location: (entire outlet, lt side, rt side, middle, see dwg)
  - Notes:
- ☐ Other: (beaver activity, partially/completely blocked, i.e.) ☐ ☐ ☐ ☐
  - Notes:

Required Action: None | Monitor | Maintenance | Engineer

(Upstream Slope, Crest, Downstream Slope, Seepage, **Principal Spillway-Inlet/Outlet**, Emergency Spillway, Lake Drain)

Action: None | Monitor | Maintenance | Engineer

☒ *OUTLET MATERIALS* (no problem, could not inspect thoroughly)

☐ Metal (loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out, pipe deformation) ☐ ☐ ☐ ☐
Dimensions:
Location:
Notes/Causes:

☒ Concrete
(bug holes, hairline crack, efflorescence) ☐ ☐ ☒ ☐
(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☒ ☐
(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐
Dimensions/Location: APPEARS UNCHANGED FROM LAST INSPECTION. LONGITUDINAL
Notes/Causes: CRACKS ALONG BOTTOM OF CHUTE, DETERIORATED JOINTS ON SIDE WALLS / JOINTS, AND CHALKING MISSING IN JOINT ALONG BOTTOM OF CHUTE
(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐
(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐
(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐
Dimensions/Location:
Notes/Causes:

☐ Plastic (deterioration, cracking, deformation) ☐ ☐ ☐ ☐
Dimensions:
Location:
Notes/Causes:

☐ Earthen
☐ Ground Cover: Type: (grass, crown vetch) Other: ☐ ☐ ☐ ☐
Quantity: (bare, sparse, adequate, dense)
Appearance: (too tall, too short, good)
Notes:

☐ Erosion: (other, surface runoff) ☐ ☐ ☐ ☐
Description (width/depth/length/etc):
Notes:

☐ Ruts: ☐ ☐ ☐ ☐
Location: (entire inlet, lt side, rt side, middle, see dwg)
Depth: ____ Width: ____ Length: ____
Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian):

☐ Riprap: Average Diameter: ☐ ☐ ☐ ☐
(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)
Notes:

☐ Rock-Cut (weathered, erosion) ☐ ☐ ☐ ☐
Description/Notes:

☒ Other: Gutter drains along outside of the spillways sidewalls of the outlet were plugged with vegetation. ☐ ☐ ☒ ☐

☒ *OTHER OUTLET PROBLEMS* (no problem) could not inspect thoroughly]

☐ Mis-Alignment: (pipe, chute, sidewall, headwall) ☐ Pipe Deformation ☐ ☐ ☐ ☐
Location/Description:
Notes/Causes:

☐ Separated Joint ☐ Loss of Joint Material ☐ ☐ ☐ ☐
Location/Description:
Notes/Causes:

☐ Undermining: ☐ ☐ ☐ ☐
Location/Description:
Notes/Causes:

☐ Other: ☐ ☐ ☐ ☐

Required Action

None | Monitor | Maintenance | Engineer

OUTLET EROSION CONTROL STRUCTURE (Stilling Basins)

☐ None

☒ (endwall/headwall, plunge pool, impact basin, flip bucket, USBR, baffled chute, rock lined channel) ☐ ☐ ☐ ☐ ☒

Notes:

Components (baffle blocks, chute blocks, endsill)

☒ *MATERIAL* [no problem, could not inspect thoroughly]

☐ Riprap: Average Diameter: ☐ ☐ ☐ ☐

(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)

Notes:

☒ Concrete

(bug holes, hairline crack, efflorescence) ☒ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes: Could not inspect because it was under water.

(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes:

☒ *OTHER* [no problem, could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ Mis-Alignment:(sidewall, headwall, entire struct.)

Location:

Description:

Notes/Causes:

☐ Separated Joint ☐ Loss of Joint Material ☐ ☐ ☐ ☐

Location:

Description:

Notes/Causes:

☐ Undermining: ☐ ☐ ☐ ☐

Location:

Description:

Notes/Causes:

☒ Other: Bedrock erosion noted at the outlet area of the concrete chute appeared unchanged from 1998 and 2003 Division of water inspection ☐ ☒ ☐ ☐

☒ *DRAINS* [none, none found, no problem, could not inspect thoroughly] (See *SEEPAGE* Section for Toe Drains & Relief Wells)

Type: ☐ Weep Holes ☒ Relief Drains ☐ Other: ☐ ☐ ☐ ☒

Flow Rate: 1 gpm each Size: 6" CMP Number: 2 (one per wall)

Location: Spillway sidewalls

Notes: CMP is rusted out at the invert. Pipe condition appears to have worsened since the last inspection.

Type: ☐ Weep Holes ☐ Relief Drains ☐ Other: ☐ ☐ ☐ ☐

Flow Rate: Size: Number:

Location:

Notes:

None | Monitor | Maintenance | Engineer

Required Action

AUXILIARY SPILLWAY – 110 foot concrete ogee spillway (RIGHT END)

Required action

☐ None Found ☐ ☐ ☐ ☐

☒ *GENERAL INLET* [no problem, could not inspect thoroughly]

☐ Anti-Vortex Plate [None] Dimensions: (adequate, too small,) ☐ ☐ ☐ ☐

Type: (steel, concrete, aluminum, stainless steel, corrugated metal, wood, other):

Deterioration: (missing sections, rusted, collapsed)

Notes:

☐ ☐ ☐ ☐

☐ Flash Boards [None]

Type: (metal, wood):

Deterioration:

Notes:

☐ Trashrack [None] Opening Size: (adequate, too small, too large) ☐ ☐ ☐ ☐

Type: (metal bars, fence, screen, concrete, baffle, other):

Deterioration: (broken bars, missing sections, rusted, collapsed)

Notes:

☒ *INLET OBSTRUCTION* [no problem, could not inspect thoroughly]

☐ Debris: (leaves, trash, logs, branches, ice) ☐ ☐ ☐ ☐

☐ Trees: Quantity: (<5, sparse, dense) ☐ ☐ ☐ ☐

Diameter: (<6", 6-12", >12")

Location: (entire inlet, lt side, rt side, middle, see dwg)

Notes:

☐ Brush: Quantity: (sparse, dense) ☐ ☐ ☐ ☐

Location: (entire inlet, lt side, rt side, middle, see dwg)

Notes:

☐ Other:(beaver activity, trashrack opening too small, partially/completely blocked, i.e.) ☐ ☐ ☐ ☐

Notes:

☒ *INLET MATERIALS* [no problem, could not inspect thoroughly]

☐ Metal

(loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out, pipe deformation) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes:

☒ Concrete

(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☒ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes: Good Condition

(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes:

☐ Plastic ☐ ☐ ☐ ☐

(deterioration, cracking, deformation)

Dimensions/Location:

Notes/Causes:

Required Action: None | Monitor | Maintenance | Engineer

☐ Earthen
- ☐ Ground Cover: Type: (grass, crown vetch) Other: ☐ ☐ ☐ ☐
  - Quantity: (bare, sparse, adequate, dense)
  - Appearance: (too tall, too short, good)
  - Notes:
- ☐ Erosion: (wave, surface runoff) ☐ ☐ ☐ ☐
  - Description (height/depth/length/etc):
  - Notes:
- ☐ Ruts: ☐ ☐ ☐ ☐
  - Location: (entire inlet, lt side, rt side, middle, see dwg)
  - Depth: Width Length:
  - Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian)
- ☐ Riprap: Average Diameter: ☐ ☐ ☐ ☐
  - (adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)
  - Notes:

☐ Rock-Cut (weathered, erosion) ☐ ☐ ☐ ☐
- Description:
- Notes:

☐ Other: ☐ ☐ ☐ ☐

☒ *OTHER INLET PROBLEMS* (no problem) could not inspect thoroughly]
- ☐ Mis-Alignment:(channel, chute, sidewall, headwall) ☐ Pipe Deformation ☐ ☐ ☐ ☐
  - Location/Description:
  - Notes/Causes:
- ☐ Separated Joint ☐ Loss of Joint Material ☐ ☐ ☐ ☐
  - Location/Description:
  - Notes/Causes:
- ☐ Undermining: ☐ ☐ ☐ ☐
  - Location/Description:
  - Notes/Causes:
- ☐ Other: ☐ ☐ ☐ ☐

☒ *OPEN CHANNEL CONTROL SECTION* [no problem, could not inspect] **Width** 110 ft (est.) ms.) **Brdth** 2 ft (est.) ms.)
- Notes: Good Condition ☒ ☐ ☐ ☐

☒ *OUTLET OBSTRUCTION* (no problem,) could not inspect thoroughly]
- ☐ Debris: (leaves, trash, logs, branches, ice) ☐ ☐ ☐ ☐
- ☐ Trees: Quantity: (<5, sparse, dense) ☐ ☐ ☐ ☐
  - Diameter: (<6", 6-12", >12")
  - Location: (entire outlet, lt side, rt side, middle, see dwg)
  - Notes:
- ☐ Brush: Quantity: (sparse, dense) ☐ ☐ ☐ ☐
  - Location:(entire outlet, lt side, rt side, middle, see dwg)
  - Notes:

Required Action: None | Monitor | Maintenance | Engineer

☐ Other:(beaver activity, partially/completely blocked, i.e.) ☐ ☐ ☐ ☐
- Notes:

{Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway, ~~Emergency~~ AUXILIARY Spillway-Inlet/Outlet, Lake Drain}

Required Action

None Monitor Maint. Engineer

☒ *OUTLET MATERIALS* [no problem, could not inspect thoroughly]

☐ Metal (loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out, pipe deformation) ☐ ☐ ☐ ☐

Dimensions:

Location:

Notes/Causes:

☒ Concrete (bug holes, hairline crack, efflorescence) ☒ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes: Some hairline cracking was noted in the bottom of the chute.

(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes:

☐ Plastic (deterioration, cracking, deformation) ☐ ☐ ☐ ☐

Dimensions:

Location:

Notes/Causes:

☒ Earthen

☒ Ground Cover: Type: (grass, crown vetch) Other: ☒ ☐ ☐ ☐

Quantity: (bare, sparse, adequate, dense)

Appearance: (too tall, too short, good)

Notes: Right side + left side are earthen.

☐ Erosion: (other, surface runoff) ☐ ☐ ☐ ☐

Description (width/depth/length/etc):

Notes:

☐ Ruts: ☐ ☐ ☐ ☐

Location: (entire inlet, lt side, rt side, middle, see dwg)

Depth: Width: Length:

Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian):

☐ Riprap: Average Diameter: ☐ ☐ ☐ ☐

(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)

Notes:

☐ Rock-Cut (weathered, erosion)

Description: ☐ ☐ ☐ ☐

Notes:

☐ Other: ☐ ☐ ☐ ☐

☒ *OTHER OUTLET PROBLEMS* [no problem, could not inspect thoroughly]

☐ Mis-Alignment:(channel, chute, sidewall, headwall) ☐ Pipe Deformation ☐ ☐ ☐ ☐

Location/Description:

Notes/Causes:

None Monitor Maintenance Engineer

☐ Separated Joint ☐ Loss of Joint Material ☐ ☐ ☐ ☐

Location/Description:

Notes/Causes:

☐ Undermining: ☐ ☐ ☐ ☐

Location/Description:

Notes/Causes:

☒ Other: Weepholes located at the outlet were plugged with moss and weeds ☐ ☐ ☒ ☐

{Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway, ~~Emergency~~ Spillway-Outlet, Lake Drain}

AUXILIARY

Required Action

Required Action

None | Monitor | Maint. | Engineer

OUTLET EROSION CONTROL STRUCTURE (Stilling Basins)

☒ None ☐ ☒ ☐ ☐

☐ (endwall/headwall, plunge pool, impact basin, flip bucket, USBR, baffled chute, rock lined channel) ☐ ☐ ☐ ☐

Notes: Spillway outlet onto bedrock. Some erosion of the rocks has occurred over the years.

Components (baffle blocks, chute blocks, endsill)

☒ *MATERIAL* (no problem) could not inspect thoroughly]

☐ Riprap: Average Diameter: ☐ ☐ ☐ ☐

(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)

Notes:

☐ Concrete

(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes:

(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes:

☒ *OTHER* (no problem) could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ Mis-Alignment:(sidewall, headwall)

Location:

Description:

Notes/Causes:

☐ Separated Joint ☐ Loss of Joint Material ☐ ☐ ☐ ☐

Location:

Description:

Notes/Causes:

☐ Undermining: ☐ ☐ ☐ ☐

Location:

Description:

Notes/Causes:

☐ Other: ☐ ☐ ☐ ☐

☒ *DRAINS* (none) none found, no problem, could not inspect thoroughly] (See *SEEPAGE* Section for Toe Drains & Relief Wells)

Type: ☐ Weep Holes ☐ Relief Drains ☐ Other: ☐ ☐ ☐ ☐

Flow Rate: Size: Number:

Location:

Notes:

Type: ☐ Weep Holes ☐ Relief Drains ☐ Other: ☐ ☐ ☐ ☐

Flow Rate: Size: Number:

Location:

Notes:

None | Monitor | Maintenance | Engineer

Required Action

Required Action

EMERGENCY SPILLWAY - 80 foot wide EARTHEN CHANNEL IN(RIGHT ABUTMENT)

☐ None Found ☐ ☐ ☐ ☐

☒ *GENERAL INLET* (no problem, could not inspect thoroughly)
- ☐ Anti-Vortex Plate [None] Dimensions: (adequate, too small,) ☐ ☐ ☐ ☐
  - Type: (steel, concrete, aluminum, stainless steel, corrugated metal, wood, other):
  - Deterioration: (missing sections, rusted, collapsed)
  - Notes:
- ☐ Flash Boards [None] ☐ ☐ ☐ ☐
  - Type: (metal, wood):
  - Deterioration:
  - Notes:
- ☐ Trashrack [None] Opening Size: (adequate, too small, too large) ☐ ☐ ☐ ☐
  - Type: (metal bars, fence, screen, concrete, baffle, other):
  - Deterioration: (broken bars, missing sections, rusted, collapsed)
  - Notes:

☒ *INLET OBSTRUCTION* (no problem, could not inspect thoroughly) ☐ ☐ ☐ ☐
- ☐ Debris: (leaves, trash, logs, branches, ice)
- ☐ Trees: Quantity: (<5, pars, dense) ☐ ☐ ☐ ☐
  - Diameter: (<6", 6-12" >12")
  - Location: (entire inlet, lt side, rt side, middle, see dwg)
  - Notes:
- ☐ Brush: Quantity: (sparse, dense) ☐ ☐ ☐ ☐
  - Location: (entire inlet, lt side, rt side, middle, see dwg)
  - Notes:
- ☐ Other:(beaver activity, trashrack opening too small, partially/completely blocked, i.e.) ☐ ☐ ☐ ☐
  - Notes:

☒ *INLET MATERIALS* [no problem, could not inspect thoroughly]
- ☐ Metal ☐ ☐ ☐ ☐
  - (loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out, pipe deformation)
  - Dimensions/Location:
  - Notes/Causes:
- ☐ Concrete
  - (bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐
  - (spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐
  - (isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐
  - Dimensions/Location:
  - Notes/Causes:
  - (bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐
  - (spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐
  - (isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐
  - Dimensions/Location:
  - Notes/Causes:
- ☐ Plastic ☐ ☐ ☐ ☐
  - (deterioration, cracking, deformation)
  - Dimensions/Location:
  - Notes/Causes:

Required Action

☒ None ☐ Monitor ☐ Maintenance ☐ Engineer

☒ Earthen

☒ Ground Cover: Type: (grass, crown vetch) Other:

Quantity: (bare, sparse, adequate, dense)

Appearance: (too tall, too short, good)

Notes:

☐ Erosion: (wave, surface runoff)

Description (height/depth/length/etc):

Notes:

☐ Ruts:

Location: (entire inlet, lt side, rt side, middle, see dwg)

Depth: Width Length:

Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian)

☐ Riprap: Average Diameter:

(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)

Notes:

☐ Rock-Cut (weathered, erosion)

Description:

Notes:

☐ Other:

☒ *OTHER INLET PROBLEMS* (no problem) could not inspect thoroughly]

☐ Mis-Alignment:(channel, chute, sidewall, headwall) ☐ Pipe Deformation

Location/Description:

Notes/Causes:

☐ Separated Joint ☐ Loss of Joint Material

Location/Description:

Notes/Causes:

☐ Undermining:

Location/Description:

Notes/Causes:

☐ Other:

☒ *OPEN CHANNEL CONTROL SECTION* [no problem, could not inspect] **Width** 80 Ft. (est.) ms.) **Brdth** 20 Ft. (est.) ms.)

Notes:

☒ *OUTLET OBSTRUCTION* (no problem) could not inspect thoroughly]

☐ Debris: (leaves, trash, logs, branches, ice)

☐ Trees: Quantity: (<5, sparse, dense)

Diameter: (<6", 6-12", >12")

Location: (entire outlet, lt side, rt side, middle, see dwg)

Notes:

☐ Brush: Quantity: (sparse, dense)

Location:(entire outlet, lt side, rt side, middle, see dwg)

Notes:

Required Action

☐ Other:(beaver activity, partially/completely blocked, i.e.)

Notes:

{Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway, Emergency Spillway-Inlet/Outlet, Lake Drain}

None Monitor Maintenance Engineer

Required Action

None Monitor Maint. Engineer

☒ ***OUTLET MATERIALS*** [no problem, could not inspect thoroughly]

☐ Metal (loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out, pipe deformation) ☐ ☐ ☐ ☐

Dimensions:

Location:

Notes/Causes:

☐ Concrete (bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes:

(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes:

☐ Plastic (deterioration, cracking, deformation) ☐ ☐ ☐ ☐

Dimensions:

Location:

Notes/Causes:

☒ Earthen

☒ Ground Cover: Type (grass) crown vetch) Other: ☒ ☐ ☐ ☐

Quantity: (bare, sparse, adequate) dense)

Appearance: (too tall, too short, good)

Notes:

☐ Erosion: (other, surface runoff) ☐ ☐ ☐ ☐

Description (width/depth/length/etc):

Notes:

☐ Ruts: ☐ ☐ ☐ ☐

Location: (entire inlet, lt side, rt side, middle, see dwg)

Depth: Width: Length:

Notes/Causes: (truck/auto, motorcycle, ATV, animals, pedestrian):

☐ Riprap: Average Diameter: ☐ ☐ ☐ ☐

(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)

Notes:

☐ Rock-Cut (weathered, erosion)

Description: ☐ ☐ ☐ ☐

Notes:

☐ Other: ☐ ☐ ☐ ☐

☒ ***OTHER OUTLET PROBLEMS*** (no problem,) could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ Mis-Alignment:(channel, chute, sidewall, headwall) ☐ Pipe Deformation

Location/Description:

Notes/Causes:

None Monitor Maintenance Engineer

☐ Separated Joint ☐ Loss of Joint Material ☐ ☐ ☐ ☐

Location/Description:

Notes/Causes:

☐ Undermining: ☐ ☐ ☐ ☐

Location/Description:

Notes/Causes:

☐ Other: ☐ ☐ ☐ ☐

(Upstream Slope, Crest, Downstream Slope, Seepage, Principal Spillway, **Emergency Spillway-Outlet**, Lake Drain)

Required Action

Required Action

None Monitor Maint. Engineer

OUTLET EROSION CONTROL STRUCTURE (Stilling Basins)

☒ None ☒ ☐ ☐ ☐

☐ (endwall/headwall, plunge pool, impact basin, flip bucket, USBR, baffled chute, rock lined channel) ☐ ☐ ☐ ☐

Notes: OUTLET FLOWS INTO A BEDROCK CHANNEL OF THE AUXILIARY SPILLWAY.

Components (baffle blocks, chute blocks, endsill)

☐ *MATERIAL* (no problem, could not inspect thoroughly]

☐ Riprap: Average Diameter: ☐ ☐ ☐ ☐

(adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no)

Notes:

☐ Concrete

(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes:

(bug holes, hairline crack, efflorescence) ☐ ☐ ☐ ☐

(spalling, popouts, honeycombing, scaling, craze/map cracks) ☐ ☐ ☐ ☐

(isolated crack, exposed rebar, disintegration, other) ☐ ☐ ☐ ☐

Dimensions/Location:

Notes/Causes:

☒ *OTHER* (no problem, could not inspect thoroughly] ☐ ☐ ☐ ☐

☐ Mis-Alignment: (sidewall, headwall)

Location:

Description:

Notes/Causes:

☐ Separated Joint ☐ Loss of Joint Material ☐ ☐ ☐ ☐

Location:

Description:

Notes/Causes:

☐ Undermining: ☐ ☐ ☐ ☐

Location:

Description:

Notes/Causes:

☐ Other: ☐ ☐ ☐ ☐

☒ *DRAINS* (none) none found, no problem, could not inspect thoroughly] (See *SEEPAGE* Section for Toe Drains & Relief Wells)

Type: ☐ Weep Holes ☐ Relief Drains ☐ Other: ☐ ☐ ☐ ☐

Flow Rate: Size: Number:

Location:

Notes:

Type: ☐ Weep Holes ☐ Relief Drains ☐ Other: ☐ ☐ ☐ ☐

Flow Rate: Size: Number:

Location:

Notes:

None Monitor Maintenance Engineer

Required Action

LAKE DRAIN

Required Action: None | Monitor | Maint. | Engineer

☒ *GENERAL*

☐ None Found ☐ Does not have one — ☐ ☐ ☐ ☐

☒ Type of Lake Drain (isolated control/intake tower, valve vault w/ outlet conduit, valve in riser/drop inlet, siphon) — ☒ ☐ ☐ ☐

Notes:

☒ Operated During Inspection (yes, no) — ☒ ☐ ☐ ☐

Notes:

☒ *ACCESS TO VALVE/SLUICE GATE* (no problem, could not inspect thoroughly)

☒ Type (not accessible, from shore, boat, walkway, other) — ☒ ☐ ☐ ☐

Notes:

☐ Walkway/Platform:

☐ Concrete Deterioration ☐ Cracks (platform, piers, end supports, railing) — ☐ ☐ ☐ ☐

Location:

Notes:

☐ Wood Deterioration — ☐ ☐ ☐ ☐

Notes:

☐ Metal Deterioration — ☐ ☐ ☐ ☐

(minor, moderate, extensive, other)

Notes:

☒ *LAKE DRAIN COMPONENTS* (no problem, could not inspect thoroughly)

☒ Concrete Structure — ☒ ☐ ☐ ☐

Location:

Description: (deterioration, misalignment, cracks):

Notes/Causes: Good Condition

☒ Valve Control (Operating Device)

☒ No Operating Device ☐ No Stem ☐ Bent/Broken Stem ☐ Other — ☒ ☐ ☐ ☐

Notes/Operability: OPERATING DEVICE NOT KEPT AT LAKE

☒ Valve / Sluice Gate

☐ Metal Deterioration: (surface rust, minor, moderate, extensive, other) — ☐ ☐ ☐ ☐

Location:

Flow Rate:

Notes/Causes:

☐ Misalignment — ☐ ☐ ☐ ☐

Notes/Causes:

☒ Leakage - Flow Rate: 1 gallon per minute (same as 1998 & 2003 DOW Inspection) — ☐ ☒ ☐ ☐

Notes/Causes:

☐ Valve / Sluice Gate

☐ Metal Deterioration: (surface rust, minor, moderate, extensive, other) — ☐ ☐ ☐ ☐

Location:

Flow Rate:

Notes/Causes:

☐ Misalignment - Notes/Causes: — ☐ ☐ ☐ ☐

☐ Leakage - Flow Rate: — Required Action: None | Monitor | Maintenance | Engineer ☐ ☐ ☐ ☐

Notes/Causes:

Action: None | Monitor | Maintenance | Engineer

☒ Outlet Conduit
- ☐ Metal: (loss of coating/paint, surface rust, corrosion (pitting, scaling), rusted out) — ☐ ☐ ☐ ☐
  - Location:
  - Notes/Causes:
- ☒ Concrete (bug holes, hairline crack, efflorescence) — ☒ ☐ ☐ ☐
  (spalling, popouts, honeycombing, scaling, craze/map cracks) — ☐ ☐ ☐ ☐
  (isolated crack, exposed rebar, disintegration, other) — ☐ ☐ ☐ ☐
  - Dimensions/Location:
  - Notes/Causes: Appeared in good condition
- ☐ Plastic: (deterioration, cracking) — ☐ ☐ ☐ ☐
  - Location:
  - Notes/Causes:
- ☐ Conduit Deformation ☐ Mis-Alignment: — ☐ ☐ ☐ ☐
  - Location:
  - Notes/Causes:
- ☐ Separated Joint ☐ Loss of Joint Material — ☐ ☐ ☐ ☐
  - Location/Description:
  - Notes/Causes:
- ☐ Undermining: — ☐ ☐ ☐ ☐
  - Location/Description:
  - Notes/Causes:
- ☐ Vegetation (trees, brush) — ☐ ☐ ☐ ☐
  - Notes:
- ☐ Other: — ☐ ☐ ☐ ☐
  - Notes:

☒ Energy Dissipator
- ☒ Type (endwall, plunge pool, impact basin, stilling basin, rock-lined channel, (none)) — ☒ ☐ ☐ ☐
  - Notes: OUTLET FROM LAKE DRAIN FLOW ONTO BEDROCK IN AUXILIARY SPILLWAY
- ☐ Riprap: Average Diameter: — ☐ ☐ ☐ ☐
  (adequate, sparse, displaced, weathered, vegetation) (bedding/fabric noted - yes, no))
  - Notes:
- ☐ Concrete (bug holes, hairline crack, efflorescence) — ☐ ☐ ☐ ☐
  (spalling, popouts, honeycombing, scaling, craze/map cracks) — ☐ ☐ ☐ ☐
  (isolated crack, exposed rebar, disintegration, other) — ☐ ☐ ☐ ☐
  - Dimensions/Location:
  - Notes/Causes:
- ☐ Mis-Alignment: — ☐ ☐ ☐ ☐
  - Location/Description:
  - Notes/Causes:
- ☐ Separated Joint ☐ Loss of Joint Material — ☐ ☐ ☐ ☐
  - Location/Description:
  - Notes/Causes:
- ☐ Undermining: — ☐ ☐ ☐ ☐
  - Location/Description:
  - Notes/Causes:
- ☐ Other: — ☐ ☐ ☐ ☐
  - Notes:

Required Action: None | Monitor | Maintenance | Engineer