



DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, CORPS OF ENGINEERS
2 HOPKINS PLAZA
BALTIMORE, MD 21201

Emergency Management

Exeter Flood Risk Management Project

ATTN: Vince Ninassi
1101 Wyoming Ave.
Exeter, PA 18643

Dear Mr. Ninassi,

On 5 June 2024, we performed a Continuing Eligibility Inspection (CEI) of the Exeter Flood Risk Management Project. Enclosed is a copy of our inspection report for your records. Your systems overall rating is Minimally Acceptable and you are currently active within the PL84-99 Rehabilitation and Inspection Program (RIP).

Please refer to the inspection for recommendations to improve your operations and maintenance. These items should be corrected prior to your next CEI in 2026 or your system could become unacceptable. Minimally acceptable items in this report may not be eligible for rehabilitation post flood if project damages are a direct result of deferred maintenance. Once maintenance or repair of these items are accomplished please notify us so we can update our records to reflect improvements and current conditions of the project.

If a flood occurs affecting your system please check for damages report any noted damages to this system. Point of contact for this program is Mr. Leon Skinner PL 84-99 Program Manager leon.skinner@usace.army.mil or 410-962-4226.

Leon Skinner

Leon Skinner
Emergency Management Specialist
US Army Corps of Engineers
Baltimore District



US Army Corps of Engineers ®

Levee Inspection Report

Name of System: Exeter - Hicks Creek

Name of Segment: Exeter - Hicks Creek

NLD System ID: 2305700008 NLD Segment ID: 2304705008

Segment Type: Locally Constructed, Locally Operated and Maintained

Levee Sponsor (Name and Organization): Vince Ninassi - Exeter Borough

Inspection Report Prepared by: Daniel Risley, USACE Baltimore Date(s) of Inspection: 06/05/2024 - 06/05/2024

Other Segments Within This System

Segment Name	NLD Segment ID#	Segment Type	Segment Inspection Rating

Contents of Inspection Report:

Levee Inspection Summary

- Inspection Checklist
- General Items
 - Levee Embankment
 - Concrete Floodwalls
 - Interior Drainage System
 - Pump Stations
 - FDR System Channels

Public Sponsor Pre-Inspection Form

National Flood Insurance Program (NFIP) - 44 CFR 65.10 Provision Ev

General Instructions

Type of Inspection: Routine Inspection Periodic Inspection Special Inspection

Purpose of Special Inspection: _____

Ratings:

Segment Rating: Acceptable Minimally Acceptable Unacceptable No Verdict

System Rating: Acceptable Minimally Acceptable Unacceptable No Verdict

ITR Signature: *Daniel Risley* Date Approved: 12 Sept 2024

QA Signature: *Leon Skinner* Date Approved: 16 Sept 2024

Levee Inspection Team Members (Levee Sponsor, USACE, and Others)

Name	Organization	Discipline	Phone Number
Daniel Risley	USACE - Baltimore District	Lead Inspector	443-743-9971
Leon Skinner	USACE - Baltimore District	PL84-99 Program Manager	410-320-9356
Jay Tubbs	USACE - Baltimore District	Construction	570-989-1113
Airi Lackey	USACE - Baltimore District	Field Inspector	814-235-0570
Debra Serbin/ Vince Ninassi	Exeter PA Borough	Manager	570-654-3001 x 4



**US Army Corps
of Engineers ®**

Flood Damage Reduction System 2305700008 / Segment 2304705008 Public Sponsor Pre-Inspection Form

The following information is to be provided by the levee district sponsor prior to an inspection. This information will be used to help evaluate the organizational capability of the levee district to manage the levee segment / system maintenance program.

1. Levee segment / system and sponsor: (name of the segment / system and levee sponsor)

System 2305700008 / Segment 2304705008 CENAB

2. Reporting period: (month/day/year to month/day/year)

06/08/2022

to

06/05/2024

3. Summary of maintenance required by last inspection report:

Maintain rodent impact by establishing a rodent control program. Continue to remove knottweed throughout project. Continue to repair erosion at multiple locations to prevent head cutting, and slope instability.

4. Summary of maintenance performed this reporting period:

Project conditions appeared improved from past inspections.

5. Summary of maintenance planned next reporting period:

Continue to remove unwanted vegetation throughout the project. Continue to remove rodents and fill burrows as needed.

6. Summary of changes to segment / system since last inspection:

N/A

7. Problems/ issues requiring the assistance of the US Army Corps of Engineers:

N/A

National Flood Insurance Program (NFIP) - 44 CFR 65.10 Provision Evaluation

<u>FINDING</u>		44 CFR 65.10 Criterion	CFR Section
<input type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	All closure devices, whether manual or automatic, are operated in accordance with an officially adopted operation manual.	65.10(c)
<input type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	Manuals document a flood warning system that will be used to trigger emergency operation activities and demonstration that sufficient flood warning time exists for the completed operation of all closure structures.	65.10(c)(1)i
<input type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	Manuals identify specific actions and assignments of responsibility by individual name or title.	65.10(c)(1)ii
<input type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	Manuals identify provisions for periodic operation of closure structures for testing and training purposes, in accordance with the adopted operation manual.	65.10(c)(1)iii
<input type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	Officially adopted maintenance plans documents the formal procedure that ensures that the stability, height, & overall integrity of the levee and its associated structures and systems are maintained.	65.10(d)
<input type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	Maintenance plans specify the maintenance activities to be performed, the frequency of their performance, and the person by name or title responsible for their performance.	65.10(d)

General Instructions for the Inspection of Flood Damage Reduction Segments / Systems

A. Purpose of USACE Inspections

The primary purpose of these inspections is to prevent loss of life and catastrophic damages; preserve the value of Federal investments, and to encourage non-Federal sponsors to bear responsibility for their own protection. Inspections should assure that Flood Damage Reduction structures and facilities are continually maintained and operated as necessary to obtain the maximum benefits. Inspections are also conducted to determine eligibility for Rehabilitation Assistance under authority of PL 84-99 for Federal and non-Federal systems. (ER 1130-2-530, ER 500-1-1)

B. Types of Inspections:

The Corps conducts several types of inspections of Flood Damage Reduction systems, as outlined below:

Initial Eligibility Inspections	Continuing Eligibility Inspections	
	Routine Inspections	Periodic Inspections
IEIs are conducted to determine whether a non-Federally constructed Flood Damage Reduction system meets the minimum criteria and standards set forth by the Corps for initial inclusion into the Rehabilitation and Inspection Program.	RIIs are intended to verify proper maintenance, owner preparedness, and component operation.	PIIs are intended to verify proper maintenance and component operation and to evaluate operational adequacy, structural stability, and safety of the system. Periodic Inspections evaluate the system's original design criteria vs. current design criteria to determine potential performance impacts, evaluate the current conditions, and compare the design loads and design analysis used against current design standards. This is to be done to identify components and features for the sponsor that need to be monitored more closely over time or corrected as needed. (Periodic Inspections are used as the basis of risk assessments.)

C. Inspection Boundaries:

Inspections should be conducted so as to rate each Flood Damage Reduction "Segment" of the system. The overall system rating will be the lowest segment rating in the system.

Project	System	Segment
A flood damage reduction project is made up of one or more flood damage reduction systems which were under the same authorization.	A flood damage reduction system is made up of one or more flood damage reduction segments which collectively provide flood damage reduction to a defined area. Failure of one segment within a system constitutes failure of the entire system. Failure of one system does not affect another system.	A flood damage reduction segment is defined as a discrete portion of a flood damage reduction system that is operated and maintained by a single entity. A flood damage reduction segment can be made up of one or more features (levee, floodwall, pump stations, etc).

D. Land Use Definitions:

The following three definitions are intended for use in determining minimum required inspection intervals and initial requirements for inclusion into the Rehabilitation and Inspection Program. Inspections should be considered for all systems that would result in significant environmental or economic impact upon failure regardless of specific land use.

Agricultural	Rural	Urban
Protected population in the range of zero to 5 households per square mile protected.	Protected population in the range of 6 to 20 households per square mile protected.	Greater than 20 households per square mile; major industrial areas with significant infrastructure investment. Some protected urban areas have no permanent population but may be industrial areas with high value infrastructure with no overnight population.

E. Use of the Inspection Report Template:

The report template is intended for use in all Army Corps of Engineers inspections of levee and floodwall systems and flood damage reduction channels. The section of the template labeled \"Initial Eligibility\" only needs to be completed during Initial Eligibility Inspections of Non-Federally constructed Flood Damage Reduction Systems. The section labeled \"General Items\" needs to be completed with every inspection, along with all other sections that correspond to features in the system. The section labeled \"Public Sponsor Pre-Inspection Report\" is intended for completion before the inspection, if possible.

F. Individual Item / Component Ratings:

Assessment of individual components rated during the inspection should be based on the criteria provided in the inspection report template, though inspectors may incorporate additional items into the report based on the characteristics of the system. The assessment of individual components should be based on the following definitions.

Acceptable Item	Minimally Acceptable Item	Unacceptable Item
The inspected item is in satisfactory condition, with no deficiencies, and will function as intended during the next flood event.	The inspected item has one or more minor deficiencies that need to be corrected. The minor deficiency or deficiencies will not seriously impair the functioning of the item as intended during the next flood event.	The inspected item has one or more serious deficiencies that need to be corrected. The serious deficiency or deficiencies will seriously impair the functioning of the item as intended during the next flood event.

G. Overall Segment / System Ratings:

Determination of the overall system rating is based on the definitions below. Note that an Unacceptable System Rating may be either based on an engineering determination that concluded that noted deficiencies would prevent the system from functioning as intended during the next flood event, or based on the sponsor's demonstrated lack of commitment or inability to correct serious deficiencies in a timely manner.

Acceptable System	Minimally Acceptable System	Unacceptable System
All items or components are rated as Acceptable.	One or more items are rated as Minimally Acceptable or one or more items are rated as Unacceptable and an engineering determination concludes that the Unacceptable items would not prevent the segment / system from performing as intended during the next flood event.	One or more items are rated as Unacceptable and would prevent the segment / system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years.

H. Eligibility for PL84-99 Rehabilitation Assistance:

Inspected systems that are not operated and maintained by the Federal government may be Active in the Corps' Rehabilitation and Inspection Program (RIP) and eligible for rehabilitation assistance from the Corps as defined below:

If the Overall System Rating is Acceptable	If the Overall System Rating is Minimally Acceptable	If the Overall System Rating is Unacceptable
The system is active in the RIP and eligible for PL84-99 rehabilitation assistance.	The system is Active in the RIP during the time that it takes to make needed corrections. Active systems are eligible for rehabilitation assistance. However, if the sponsor does not present USACE with proof that serious deficiencies (which had previously resulted in a minimally acceptable system rating) were corrected within the established timeframe, then the system will become Inactive in the RIP.	The system is Inactive in the RIP, and the status will remain Inactive until the sponsor presents USACE with proof that all items rated Unacceptable have been corrected. Inactive systems are ineligible for rehabilitation assistance.

I. **Reporting:**

After the inspection, the Corps is responsible for assembling an inspection report (or a summary report if it was a Periodic Inspection) including the following information:

- a. All sections of the report template used during the inspection, including the cover and pre-inspection materials. (Supplemental data collected, and any sections of the template that weren't used during the inspection do not need to be included with the report.)
- b. Photos of the general system condition and noted deficiencies.
- c. A plan view drawing of the system, with stationing, to reference locations of items rated less than acceptable.
- d. The relative importance of the identified maintenance issues should be specified in the transmittal letter.
- e. If the Overall System Rating is Minimally Acceptable, the report needs to establish a timeframe for correction of serious deficiencies noted (not to exceed two years) and indicate that if these items are not corrected within the required timeframe, the system will be rated as Unacceptable and made Inactive in the Rehabilitation Inspection Program.

J. **Notification:**

Reports are to be disseminated as follows within 30 days of the inspection date.

If the Overall System Rating is Acceptable	If the Overall System Rating is Minimally Acceptable	If the Overall System Rating is Unacceptable
Reports need to be provided to the local sponsor and the county emergency management agency.	Reports need to be provided to the local sponsor, state emergency management agency, county emergency management agency, and to the FEMA region.	Reports need to be provided to the local sponsor, state emergency management agency, county emergency management agency, FEMA region, and to the Congressional delegation within 30 days of the inspection.

Segment Rating Rationale:

[Describe the basis of the Segment rating considering (1) the general condition of the segment, (2) the rationale for Item ratings, categorized by Feature that contributed to the Segment rating, and (3) the number or severity of notable observations/deficiencies. The summary may also include information related to the condition of the levee, not otherwise captured in the Levee Inspection Checklist, if applicable.]

Sponsor should continue to implement its vegetation and animal control practices.

System Rating Rationale:

[Synthesize information from the Segment rating rationales for each Segment within the System. For single-segment systems, see segment rating rationale above.]

Sponsor should continue to implement its vegetation and animal control practices.

General Items for All Flood Damage Reduction Segments / Systems: Exeter - Hicks Creek
For use during all inspections of all Flood Damage Reduction Segments / Systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Operations and Maintenance Manuals	A	A	Levee Owner's Manual, O&M Manuals, and/or manufacturer's operating instructions are present.	Justification: Sponsor presented the O&M manual, dated 2015, at the time of the inspection.
		M	Sponsor manuals are lost or missing or out of date; however, sponsor will obtain manuals prior to next scheduled inspection.	
		U	Sponsor has not obtained lost or missing manuals identified during previous inspection.	
2. Emergency Supplies and Equipment (A or M only)	A	A	The sponsor maintains a stockpile of sandbags, shovels, and other flood fight supplies which will adequately supply all needs for the initial days of a flood fight. Sponsor determines required quantity of supplies after consulting with inspector.	Justification: The sponsor appeared to be prepared for a flood emergency.
		M	The sponsor does not maintain an adequate supply of flood fighting materials as part of their preparedness activities.	
3. Flood Preparedness and Training (A or M only)	A	A	Sponsor has a written system-specific flood response plan and a solid understanding of how to operate, maintain, and staff the FDR system during a flood. Sponsor maintains a list of emergency contact information for appropriate personnel and other emergency response agencies.	Justification: The Emergency Action Plan along with updated contact information was available at the time of the inspection.
		M	The sponsor maintains a good working knowledge of flood response activities, but documentation of system-specific emergency procedures and emergency contact personnel is insufficient or out of date.	

Flood Damage Reduction Channels: Exeter - Hicks Creek
For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Vegetation and Obstructions	M	A	No obstructions, vegetation, debris, or sediment accumulation within the channel. Concrete channel joints and weep holes are free of grass and weeds.	2024-0018: Typical conditions. Knottweed growing on both banks (M)
		M	Obstructions (including log jams), vegetation, debris, or sediment are minor and have not impaired channel flow capacity, but should be removed. Sediment shoals have not developed to the extent that they can support vegetation other than non-aquatic grasses. A limited volume of grass and weeds may be present in concrete channel joints and weep holes.	2024-0019: Concrete channel is 90% full of sediment. Concrete portion is 18 inch high. Sponsor needs to clean out. (M)
		U	Obstructions (including log jams), vegetation, debris or sediment have impaired the channel flow capacity. Sediment shoals are well established and support woody and/or brushy vegetation. Sediment and debris removal required to re-establish flow capacity.	2024-0020: Culvert is highly impacted by sediment. Estimate 25% blocked. Sponsor should clean out. (M)
2. Shoaling (sediment deposition)	M	A	No shoaling or minor, non-vegetated shoaling is present.	
		M	More widespread vegetated and non-vegetated shoaling is present. Non-aquatic grasses are present on shoal. No trees or brush is present on shoal, and channel flow is not significantly reduced. Sediment and debris removal recommended.	2024-0019 Concrete channel is 90% full of sediment. Concrete portion is 18 inch high. Sponsor needs to clean out. (M)
		U	Shoaling is well established, stabilized by saplings, brush, or other vegetation. Shoals are diverting flow to channel walls. Channel flow capacity is reduced and maintenance is required.	2024-0020: Culvert is highly impacted by sediment. Estimate 25% blocked. Sponsor should clean out. 2024-0021: Typical conditions. A few feet of sediment is in the Strumer Street basin. Sediment should be removed (M)

Flood Damage Reduction Channels: Exeter - Hicks Creek
For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
3. Encroachments	M	A	No trash, debris, unauthorized structures, excavations, or other obstructions present within the easement area. Encroachments have been previously reviewed by the Corps, and it was determined that they do not diminish proper functioning of the channel.	2024-0009 : Tree growing right at top of concrete rip rap. Should be removed (M) 2024-0010: Multiple holes or burrows. Needs to be filled and animal removed. Could cause flooding if section fails. Some holes 1-3 feet deep (M) 2024-0012: Existing 18-inch storm drain, (M) 2024-0026: Groundhog holes along channel (M)
		M	Trash, debris, unauthorized structures, excavations, or other obstructions present, or inappropriate activities noted that should be corrected but will not inhibit operations and maintenance or emergency operations. Encroachments have not been reviewed by the Corps.	
		U	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the channel.	
4. Erosion	M	A	No head cutting or horizontal deviation observed.	Some erosion and rutting were noted in the Donna's Way SWM facility
		M	Head cutting and horizontal deviation evident, but is less than 1 foot from the designed grade or cross section.	
		U	Head cutting and horizontal deviation of more than 1 foot from the designed grade or cross section. Corrective actions required to stop or slow erosion.	
5. Concrete Surfaces	M	A	Negligible spalling, scaling or cracking. If the concrete surface is weathered or holds moisture, it is still satisfactory but should be seal coated to prevent freeze/ thaw damage.	2024-0007: Typical conditions, Concrete appears in good condition (A) 2024-0008: Typical conditions of concrete reinforced rip rap, seems in good shape (A) 2024-0017: Typical conditions of rip rap, Knottweed taking over, should be removed (M)
		M	Spalling, scaling, and open cracking present, but the immediate integrity or performance of the structure is not threatened. Reinforcing steel may be exposed. Repairs/ sealing is necessary to prevent additional damage during periods of thawing and freezing.	
		U	Surface deterioration or deep cracks present that may result in an unreliable structure. Any surface deterioration that exposes the sheet piling or lies adjacent to monolith joints may indicate underlying reinforcement corrosion and is unacceptable.	
		N/A	There are no concrete items in the channel.	

Flood Damage Reduction Channels: Exeter - Hicks Creek
For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
6. Tilting, Sliding or Settlement of Concrete Structures	M	A	There are no significant areas of tilting, sliding, or settlement that would endanger the integrity of the structure.	2024-0032 : Tilted wingwall of the drainage structure near Donna's Way. (M)
		M	There are areas of tilting, sliding, or settlement (either active or inactive) that need to be repaired. The maximum offset, either laterally or vertically, does not exceed 2 inches unless the movement can be shown to be no longer actively occurring. The integrity of the structure is not in danger.	
		U	There are areas of tilting, sliding, or settlement (either active or inactive) that threaten the structure's integrity and performance. Any movement that has resulted in failure of the waterstop (possibly identified by daylight visible through the joint) is unacceptable. Differential movement of greater than 2 inches between any two adjacent monoliths, either laterally or vertically, is unacceptable unless it can be shown that the movement is no longer active. Also, if the floodwall is of I-wall construction, then any visible or measurable tilting of the wall toward the protected side that has created an open horizontal crack on the riverside base of a monolith is unacceptable.	
		N/A	There are no concrete items in the channel.	
7. Foundation of Concrete Structures	A	A	No active erosion, scouring, or bank caving that might endanger the structure's stability.	Justification: No issues were observed at the time of the inspection.
		M	There are areas where the ground is eroding towards the base of the structure. Efforts need to be taken to slow and repair this erosion, but it is not judged to be close enough to the structure or to be progressing rapidly enough to affect structural stability before the next inspection. For the purposes of inspection, the erosion or scour is not closer to the riverside face of the wall than twice the floodwall's underground base width if the wall is of L-wall or T-wall construction; or if the wall is of sheetpile or I-wall construction, the erosion is not closer than twice the wall's visible height. Additionally, rate of erosion is such that the wall is expected to remain stable until the next inspection.	
		U	Erosion or bank caving observed that is closer to the wall than the limits described above, or is outside these limits but may lead to structural instabilities before the next inspection. Additionally, if the floodwall is of I-wall or sheetpile construction, the foundation is unacceptable if any turf, soil or pavement material got washed away from the landside of the I-wall as the result of a previous overtopping event.	
		N/A	There are no concrete items in the channel.	

Flood Damage Reduction Channels: Exeter - Hicks Creek
For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
8. Slab and Monolith Joints	A	A	The joint material is in good condition. The exterior joint sealant is intact and cracking/ desiccation is minimal. Joint filler material and/or waterstop is not visible at any point.	Justification: No issues related to slab or monolith joints were noted during the inspection.
		M	The joint material has appreciable deterioration to the point where joint filler material and/or waterstop is visible in some locations. This needs to be repaired or replaced to prevent spalling and cracking during freeze/ thaw cycles, and to ensure water tightness of the joint.	
		U	The joint material is severely deteriorated or the concrete adjacent to the monolith joints has spalled and cracked, damaging the waterstop; in either case damage has occurred to the point where it is apparent that the joint is no longer watertight and will not provide the intended level of protection during a flood.	
		N/A	There are no concrete items in the channel.	
9. Flap Gates/ Flap Valves/ Pinch Valves	M	A	Gates/ valves open and close easily with minimal leakage, have no corrosion damage, and have been exercised and lubricated as required.	2024-0030 :Typical conditions of SWM facility at low flow outfall. Vegetation needs to be cleared out (M) 2024-0032 : Drainage Structure and flap gate near Donna's Way appear in good condition. (A)
		M	Gates/ valves will not fully open or close because of obstructions that can be easily removed, or have minor corrosion damage that requires maintenance.	
		U	Gates/ valves are missing, have been damaged, or have deteriorated to the point that they need to be replaced.	
		N/A	There are no flap gates.	
10. Riprap Revetments & Banks	A	A	No riprap displacement or stone degradation that could pose an immediate threat to the integrity of channel bank. Riprap intact with no woody vegetation present.	Riprap was sprayed for invasive vegetation downstream of Slocum Avenue debris basin. (A)
		M	Minor riprap displacement or stone degradation that could pose an immediate threat to the integrity of the channel bank. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant riprap displacement, exposure of bedding, or stone degradation observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Rock protection is hidden by dense brush, trees, or grasses.	
		N/A	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.	

Flood Damage Reduction Channels: Exeter - Hicks Creek
 For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
11. Revetments other than Riprap	NA	A	Existing revetment protection is properly maintained, undamaged, and clearly visible.	2024-0008: Typical conditions of concrete reinforced rip rap, seems in good shape (A)
		M	Minor revetment displacement or deterioration that does not pose an immediate threat to the integrity of the levee. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant revetment displacement, deterioration, or exposure of bedding observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Revetment protection is hidden by dense brush and trees.	
		N/A	There are no such revetments protecting this feature of the segment / system.	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Debris Basins

For use during Initial and Continuing Eligibility Inspections of levee segments/ systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Unwanted Vegetation Growth ¹	M	A	The debris basin has little or no unwanted vegetation (trees, bush, or undesirable weeds), except for vegetation that is properly contained and/or situated on overbuilt sections, such that the mandatory 3-foot root-free zone is preserved around the embankment profile. The debris basin has been recently mowed where it is appropriate. The vegetation-free zone extends 15 feet from both the landside and riverside toes of the embankment to the centerline of the tree. If the debris basin access easement doesn't extend to the described limits, then the vegetation-free zone must be maintained to the easement limits. Reference ETL 1110-2-571 or Corps policy for regional vegetation variance.	As a general condition invasive vegetation was growing on riprap on the debris basin banks at the Slocum Ave and Sturmer Street debris basins. Sponsor should clear vegetation and monitor for future growth. 2024-002: Typical conditions: Debris Basin Embankment, note vegetation at toe on wet side (M) 2024-003: Typical conditions: Debris Basin Embankment, note vegetation at toe on wet side (M)
		M	Minimal vegetation growth (brush, weeds, or trees 2 inches in diameter or smaller) is present. This vegetation must be removed but does not currently threaten the operation or integrity of the debris basin embankment.	
		U	Significant vegetation growth (brush, weeds, or any trees greater than 2 inches in diameter) is present and must to be removed to reestablish or ascertain debris basin embankment integrity.	
2. Sod Cover	A	A	There is good coverage of sod over the debris basin embankment.	No issues related to sod cover on the basin embankment were noted during the inspection.
		M	Approximately 25% of the sod cover is missing or damaged over a significant portion or over significant portions of the debris basin embankment.	
		U	Over 50% of the sod cover is missing or damaged over a significant portion or portions of the debris basin embankment.	
		N/A	Surface protection is provided by other means.	
3. Encroachments or Obstructions	A	A	No trash, debris, unauthorized farming activity, structures, excavations, or other obstructions present within the easement area.	No issues related to encroachments at the debris basins were observed at the time of the inspection.
		M	Trash, debris, unauthorized farming activity, structures, excavations, or other obstructions present, or inappropriate activities noted that should be corrected but will not inhibit operations and maintenance or emergency operations.	
		U	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the debris basin.	
4. Sedimentation	M	A	Sediment deposits do not exceed 10% of basin capacity.	2024-0001 : Outlet structure. Debris basin is full. Sponsor stated they are planning to clean out. Has been to wet (M) 2024-004: Outlet structure. Debris basin is full. Sponsor stated they are planning to clean out. Has been to wet (M)
		M	Sediment deposits exceed 10% but do not exceed 30% of basin capacity.	
		U	Sediment deposits exceed 30% of basin capacity.	
5. Slope Stability	A	A	No slides, sloughs, tension cracking, slope depressions, or bulges are present.	No issues relating to slope stability were noted during inspection.
		M	Minor slope stability problems that do not pose an immediate threat to the embankment.	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction



Debris Basins

For use during Initial and Continuing Eligibility Inspections of levee segments/ systems

Rated Item	Rating	Rating Guidelines	Location/Remarks/Recommendations
		U Major slope stability problems (ex. deep seated sliding) identified that must be repaired to reestablish the integrity of the embankment.	
6. Erosion/ Bank Caving	A	A No erosion or bank caving is observed on the slopes of the debris basin embankment that might endanger its stability. No erosion or bank caving is observed along the perimeter of the basin.	No issues related to erosion at the debris basins were observed during the inspection.
		M Minor slope stability problems that do not pose an immediate threat to the debris basin embankment.	
		U Major slope stability problems (ex. deep seated sliding) identified that must be repaired to reestablish the integrity of the debris basin embankment.	
7. Depressions/ Rutting	A	A There are scattered, shallow ruts, pot holes, or other depressions on the embankment that are unrelated to settlement. The crown, embankments, and access road crowns are well established and drain properly without any ponded water.	No issues relating to depressions or rutting were noted during inspection.
		M There are some infrequent minor depressions less than 6 inches deep in the crown, embankment, or access roads that will pond water.	
		U There are depressions greater than 6 inches deep that will pond water.	
8. Cracking	A	A Minor longitudinal, transverse, or desiccation cracks with no vertical movement along the crack. No cracks extend continuously through the crest.	No issues relating to embankment cracking were noted during inspection.
		M Longitudinal and/or transverse cracks up to 6 inches in depth with no vertical movement along the crack. No cracks extend continuously through the crest. Longitudinal cracks are no longer than the height of the embankment.	
		U Cracks exceed 6 inches in depth. Longitudinal cracks are longer than the height of the embankment and/or exhibit vertical movement along the crack. Transverse cracks extend through the entire embankment width.	
9. Animal Control	A	A Continuous animal burrow control program in place that includes the elimination of active burrowing and the filling in of existing burrows.	Due to vegetation outgrowth in the debris basins in some areas, issues related to animal control on embankments were not inspected and therefore noted during inspection. Previous inspections are not reporting animal control issues on the embankments. Sponsor should monitor and fill animal burrows as needed.
		M The existing animal burrow control program needs to be improved. Several burrows are present which may lead to seepage or slope stability problems, and they require immediate attention.	
		U Animal burrow control program is not effective or is nonexistent. Significant maintenance is required to fill existing burrows, and the embankment will not provide reliable flood protection until this maintenance is complete.	
10. Underseepage Relief Wells/ Toe Drainage Systems	N/A	A Toe drainage systems and pressure relief wells necessary for maintaining FDR segment / system stability during high water functioned properly during the last flood event and no sediment is observed in horizontal system (if applicable). Nothing is observed which would indicate that the drainage systems won't function properly during the next flood, and maintenance records indicate regular cleaning. Wells have been pumped tested within the past 5 years and documentation is provided.	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction



Debris Basins

For use during Initial and Continuing Eligibility Inspections of levee segments/ systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
		M	Toe drainage systems or pressure relief wells are damaged and may become clogged if they are not repaired. Maintenance records are incomplete or indicate irregular cleaning and pump testing.	
		U	Toe drainage systems or pressure relief wells necessary for maintaining FDR segment / system stability during flood events have fallen into disrepair or have become clogged. No maintenance records. No documentation of the required pump testing.	
		N/A	There are no relief wells/ toe drainage systems along this component of the FDR segment / system.	
11. Seepage	A	A	No evidence or history of unrepaired seepage, saturated areas, or boils.	No seepage-related issues were noted during inspection. No history of seepage was reported at the project debris basins.
		M	Evidence or history of minor unrepaired seepage or small saturated areas at or beyond the landside toe but not on the landward slope of the embankment. No evidence of soil transport.	
		U	Evidence or history of active seepage, extensive saturated areas, or boils.	
12. Culverts/ Discharge Pipes (This item includes both concrete and corrugated metal pipes.)	N/A	A	There are no breaks, holes, cracks in the discharge pipes/ culverts that would result in significant water leakage. The pipe shape is still essentially circular. All joints appear to be closed and the soil tight. Corrugated metal pipes, if present, are in good condition with 100% of the original coating still in place (either asphalt or galvanizing) or have been relined with appropriate material, which is still in good condition. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	
		M	There are a small number of corrosion pinholes or cracks that could leak water and need to be repaired, but the entire length of pipe is still structurally sound and is not in danger of collapsing. Pipe shape may be ovalized in some locations but does not appear to be approaching a curvature reversal. A limited number of joints may have opened and soil loss may be beginning. Any open joints should be repaired prior to the next inspection. Corrugated metal pipes, if present, may be showing corrosion and pinholes but there are no areas with total section loss. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	
		U	Culvert has deterioration and/or has significant leakage; it is in danger of collapsing or as already begun to collapse. Corrugated metal pipes have suffered 100% section loss in the invert. HOWEVER: Even if pipes appear to be in good condition, as judged by an external visual inspection, an Unacceptable Rating will be assigned if the condition of pipes has not been verified using television camera video taping or visual inspection methods within the past five years, and reports for all pipes are not available for review by the inspector.	
		N/A	There are no discharge pipes/ culverts.	
13. Flap Gates/ Flap Valves/	N/A	A	Gates/ valves open and close easily with minimal leakage, have no corrosion damage, and have been exercised and lubricated as required.	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction



Debris Basins

For use during Initial and Continuing Eligibility Inspections of levee segments/ systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
Pinch Valves ²		M	Gates/ valves will not fully open or close because of obstructions that can be easily removed, or have minor corrosion damage that requires maintenance.	
		U	Gates/ valves are missing, have been damaged, or have deteriorated to the point that they need to be replaced.	
		N/A	There are no flap gates.	
14. Sluice Gates/ Slide Gates ²	N/A	A	Gates open and close freely with minor leakage. Sill is free of sediment and other obstructions. Gates and lifters have been maintained.	
		M	Gates have been damaged or have deteriorated, and open and close with resistance or binding. Leakage quantity is controllable and is not a threat to project performance. Maintenance is required.	
		U	Gates do not open or close. Gate, stem, lifter and/or guides may be damaged or corroded.	
		N/A	There are no sluice/ slide gates.	
15. Blockage of Culverts/ discharge pipes	N/A	A	There is little or no debris, sediment, or vegetation blocking the culverts, inlets, sump, or discharge areas. The channel capacity for designed flow is not affected.	
		M	Debris, sediment, or vegetation blocks less than 10 percent of the culvert opening, but must be removed.	
		U	Accumulated debris, sediment, or vegetation blocks more than 10 percent of the culvert opening, impairing the culvert's capacity and hydraulic effectiveness.	
		N/A	There are no discharge pipes/culverts.	
16. Erosion at Inlet/Outlet channel	A	A	No active erosion present in the project.	No active erosion was noted at the inlet or outlet channels.
		M	There are areas where active erosion is occurring but the integrity of the project is not threatened.	
		U	Erosion is occurring which threatens the stability and integrity of the project.	
17. Concrete Surfaces	A	A	Negligible spalling, scaling or cracking. If the concrete surface is weathered or holds moisture, it is still satisfactory but should be seal coated to prevent freeze/ thaw damage.	Concrete appears in good condition at the inlet structure Slocum Ave Debris Basin. (A)
		M	Spalling, scaling, and open cracking present, but the immediate integrity or performance of the structure is not threatened. Reinforcing steel may be exposed. Repairs/ sealing is necessary to prevent additional damage during periods of thawing and freezing.	
		U	Surface deterioration or deep cracks present that may result in an unreliable structure. Any surface deterioration that exposes the sheet piling or lies adjacent to monolith joints may indicate underlying reinforcement corrosion and is unacceptable.	
		N/A	There are no concrete items in the basin.	
18. Tilting, Sliding or Settlement of	A	A	There are no significant areas of tilting, sliding, or settlement that would endanger the integrity of the structure.	No tilting issues at the concrete structures were noted during inspection.

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction



Debris Basins

For use during Initial and Continuing Eligibility Inspections of levee segments/ systems

Rated Item	Rating	Rating Guidelines	Location/Remarks/Recommendations
Concrete Structures ³		M There are areas of tilting, sliding, or settlement (either active or inactive) that need to be repaired. The maximum offset, either laterally or vertically, does not exceed 2 inches unless the movement can be shown to be no longer actively occurring. The integrity of the structure is not in danger.	
		U There are areas of tilting, sliding, or settlement (either active or inactive) that threaten the structure's integrity and performance. Any movement that has resulted in failure of the waterstop (possibly identified by daylight visible through the joint) is unacceptable. Differential movement of greater than 2 inches between any two adjacent monoliths, either laterally or vertically, is unacceptable unless it can be shown that the movement is no longer active. Also, if the structure is of I-wall construction, then any visible or measurable tilting of the wall toward the upstream side that has created an open horizontal crack on the downstream base of a monolith is unacceptable.	
		N/A There are no concrete items in the basin.	
19. Foundation of Concrete Structures ⁴	A	A No active erosion, scouring, or bank caving that might endanger the structure's stability.	No foundation issues were noted during inspection.
		M There are areas where the ground is eroding towards the base of the structure. Efforts need to be taken to slow and repair this erosion, but it is not judged to be close enough to the structure or to be progressing rapidly enough to affect structural stability before the next inspection. For the purposes of inspection, the erosion or scour is not closer to the downstream face of the structure than twice the underground base width if the wall is of L-wall or T-wall construction; or if the structure is of sheetpile or I-wall construction, the erosion is not closer than twice the wall's visible height. Additionally, rate of erosion is such that the wall is expected to remain stable until the next inspection.	
		U Erosion or bank caving observed that is closer to the structure than the limits described above, or is outside these limits but may lead to structural instabilities before the next inspection. Additionally, if the structure is of I-wall or sheetpile construction, the foundation is unacceptable if any turf, soil or pavement material got washed away from the upstream side of the I-wall as the result of a previous overtopping event.	
		N/A There are no concrete items in the basin.	
20. Slab and Monolith Joints	A	A The joint material is in good condition. The exterior joint sealant is intact and cracking/desiccation is minimal. Joint filler material and/or waterstop is not visible at any point.	No joint issues were noted during the inspection.
		M The joint material has appreciable deterioration to the point where joint filler material and/or waterstop is visible in some locations. This needs to be repaired or replaced to prevent spalling and cracking during freeze/ thaw cycles, and to ensure water tightness of the joint.	
		U The joint material is severely deteriorated or the concrete adjacent to the monolith joints has spalled and cracked, damaging the waterstop; in either case damage has occurred to the point where it is apparent that the joint is no longer watertight and will not provide the intended level of protection during a flood.	
		N/A There are no concrete items in the basin.	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction



Debris Basins

For use during Initial and Continuing Eligibility Inspections of levee segments/ systems

Rated Item	Rating	Rating Guidelines	Location/Remarks/Recommendations
21. Riprap Revetments & Banks	M	A	No riprap displacement or stone degradation that could pose an immediate threat to the integrity of the embankment. Riprap intact with no woody vegetation present.
		M	Minor riprap displacement or stone degradation that could pose an immediate threat to the integrity of the structure. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.
		U	Significant riprap displacement, exposure of bedding, or stone degradation observed. Scour activity is undercutting, eroding embankments, or impairing flows by causing turbulence or shoaling. Rock protection is hidden by dense brush, trees, or grasses.
		N/A	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.
22. Revetments other than Riprap	N/A	A	Existing revetment protection is properly maintained, undamaged, and clearly visible.
		M	Minor revetment displacement or deterioration that does not pose an immediate threat to the integrity of the structure. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.
		U	Significant revetment displacement, deterioration, or exposure of bedding observed. Scour activity is undercutting banks, eroding embankments, or impairing flows by causing turbulence or shoaling. Revetment protection is hidden by dense brush and trees.
		N/A	There are no such revetments protecting this feature of the segment / system.
23. Trash Racks	N/A	A	Trash racks are fastened in place and properly maintained.
		M	Trash racks are in place but are unfastened or have bent bars that allow debris to enter into the pipe or pump station. Repair or replacement is required.
		U	Trash rack is missing or damaged to the extent that it is no longer functional and must be replaced.
		N/A	There are no trash racks
24. Fencing	A	A	Safety/ security fencing is in good condition and provides protection against falling or unauthorized access. Gates open and close freely, locks are in place, and there is little corrosion on metal parts.
		M	Safety/ security fencing or gates are damaged or corroded but appear to be maintainable. Locks may be missing or damaged.
		U	Safety/ security fencing and gates are damaged or corroded to the point that replacement is required, or potentially dangerous project features are not secured.
		N/A	There are no features of the internal drainage system that require safety fencing.

¹ If there is significant growth on the embankment that inhibits the inspection of animal burrows or other items, the inspection should be ended until this item is corrected.

² Proper operation of this item must be demonstrated during the inspection.

³ The sponsor should be monitoring any observed movement to verify whether the movement is active or inactive.

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction



Debris Basins

For use during Initial and Continuing Eligibility Inspections of levee segments/ systems

⁴ Inspectors must have as-built drawings available during the inspection so that the lateral distance to the heel and toe of the structure can be determined in the field.

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction



US Army Corps
of Engineers®

**Flood Damage Reduction Segment / System
Inspection Report**

**Debris Basins
Page 7 of 7**

Observations and Photos



Inspect ID: 2024-0002

Rated Item: 1. Vegetation and Obstructions **Lat/Long:** 41.32955/-75.83351

Caption:

Typical conditions: Debris Basin Embankment, note vegetation at toe on wet side (M)



Inspect ID: 2024-0003

Rated Item: 1. Vegetation and Obstructions **Lat/Long:** 41.32957/-75.83343

Caption:

Typical conditions: Debris Basin Embankment, note vegetation at toe on wet side (M)



Inspect ID: 2024-0006

Rated Item: 1. Vegetation and Obstructions **Lat/Long:** 41.32952/-75.83376

Caption:

Typical conditions: Debris Basin Embankment, (A)



Inspect ID: 2024-0006

Rated Item: 1. Vegetation and Obstructions **Lat/Long:** 41.32952/-75.83376

Caption:

Typical conditions: Debris Basin Embankment, (A)



Inspect ID: 2024-0001

Rated Item: 3. Ponding Areas

Lat/Long: 41.32963/-75.83339

Caption:

Outlet structure. Debris basin is full. Sponsor stated they are planning to clean out. Has been to wet (M) Concrete in good condition



Inspect ID: 2024-0001

Rated Item: 3. Ponding Areas

Lat/Long: 41.32963/-75.83339

Caption:

Outlet structure. Debris basin is full. Sponsor stated they are planning to clean out. Has been to wet (M)



Inspect ID: 2024-0004

Rated Item: 3. Ponding Areas

Lat/Long: 41.32988/-75.83328

Caption:

Outlet structure. Debris basin is full. Sponsor stated they are planning to clean out. Has been to wet (M)



Inspect ID: 2024-0004

Rated Item: 3. Ponding Areas

Lat/Long: 41.32988/-75.83328

Caption:

Outlet structure. Debris basin is full. Sponsor stated they are planning to clean out. Has been to wet (M)



Inspect ID: 2024-0021

Rated Item: 3. Ponding Areas

Lat/Long: 41.32538/-75.82808

Caption:

Typical conditions. A few feet of sediment is in the Strumer Street basin. Sediment should be removed (M)



Inspect ID: 2024-0021

Rated Item: 3. Ponding Areas

Lat/Long: 41.32538/-75.82808

Caption:

Typical conditions. A few feet of sediment is in the Strumer Street basin. Sediment should be removed (M)



Inspect ID: 2024-0030
Rated Item: 3. Ponding Areas
Lat/Long: 41.33599/-75.81735
Caption:
Typical conditions of SWM facility,
Donna's Way. (A)



Inspect ID: 2024-0030
Rated Item: 3. Ponding Areas
Lat/Long: 41.33599/-75.81735
Caption:
Typical conditions of SWM facility,
Donna's Way. (A)



Inspect ID: 2024-0030

Rated Item: 3. Ponding Areas

Lat/Long: 41.33599/-75.81735

Caption:

Typical conditions of SWM facility on Donna's Way. (A)



Inspect ID: 2024-0030

Rated Item: 3. Ponding Areas
Lat/Long: 41.33599/-75.81735

Caption:

Typical conditions of SWM facility on Donna's Way. (A)



Inspect ID: 2024-0030

Rated Item: 3. Ponding Areas

Lat/Long: 41.33599/-75.81735

Caption:

Typical conditions of SWM facility at low flow outfall. Vegetation needs to be cleared out, Donna's Way facility (M)



Inspect ID: 2024-0032

Rated Item: 9. Culverts / Discharge Pipes

Lat/Long: 41.33830/-75.81339

Caption:

SD discharge. Headwall tilting and erosion adjacent to structure, Donna's Way facility (M)



Inspect ID: 2024-0032

Rated Item: 9. Culverts / Discharge Pipes

Lat/Long: 41.33830/-75.81339

Caption:

SD discharge. Headwall tilting and erosion adjacent to structure, Donna's Way facility (M)



Inspect ID: 2024-0032

Rated Item: 9. Culverts / Discharge Pipes

Lat/Long: 41.33830/-75.81339

Caption:

SD discharge. Headwall tilting and erosion adjacent to structure, Donna's Way facility (M)



Inspect ID: 2024-0005

Rated Item: 12. Trash Racks (non-mechanical)

Lat/Long: 41.32968/-75.83354

Caption:

Typical conditions at debris basin, debris should be removed (M)



Inspect ID: 2024-0005

Rated Item: 12. Trash Racks (non-mechanical)

Lat/Long: 41.32968/-75.83354

Caption:

Typical conditions at debris basin, debris should be removed (M)



Inspect ID: 2024-0019

Rated Item: 2. Shoaling (sediment deposition)

Lat/Long: 41.32579/-75.82858

Caption:

Concrete channel is 90% full of sediment. Concrete portion is 18 inch high. Sponsor needs to clean out. (M)



Inspect ID: 2024-0019

Rated Item: 2. Shoaling (sediment deposition)

Lat/Long: 41.32579/-75.82858

Caption:

Concrete channel is 90% full of sediment. Concrete portion is 18 inch high. Sponsor needs to clean out (M)



Inspect ID: 2024-0020

Rated Item: 2. Shoaling (sediment deposition)

Lat/Long: 41.32565/-75.82831

Caption:

Culvert is highly impacted by sediment. Estimate 25% blocked. Sponsor should clean out.
(M)



Inspect ID: 2024-0020

Rated Item: 2. Shoaling (sediment deposition)

Lat/Long: 41.32565/-75.82831

Caption:

Culvert is highly impacted by sediment. Estimate 25% blocked. Sponsor should clean out.
(M)



Inspect ID: 2024-0020

Rated Item: 2. Shoaling (sediment deposition)

Lat/Long: 41.32565/-75.82831

Caption:

Culvert is highly impacted by sediment. Estimate 25% blocked. Sponsor should clean out.
(M)



Inspect ID: 2024-0020

Rated Item: 2. Shoaling (sediment deposition)

Lat/Long: 41.32565/-75.82831

Caption:

Culvert is highly impacted by sediment. Estimate 25% blocked. Sponsor should clean out.
(M)



Inspect ID: 2024-0009

Rated Item: 3. Encroachments

Lat/Long: 41.32862/-75.83352

Caption:

Tree growing right at top of concrete rip rap, roots will eventually undermine concrete riprap. Should be removed (M)



Inspect ID: 2024-0012

Rated Item: 3. Encroachments

Lat/Long: 41.32720/-75.83305

Caption:

Existing 18-inch storm drain, (M)



Inspect ID: 2024-0018

Rated Item: 3. Encroachments

Lat/Long: 41.32590/-75.82903

Caption:

Typical conditions. Knottweed growing on both banks (M)



Inspect ID: 2024-0018

Rated Item: 3. Encroachments

Lat/Long: 41.32590/-75.82903

Caption:

Typical conditions. Knottweed growing on both banks (M)



Inspect ID: 2024-0026
Rated Item: 3. Encroachments
Lat/Long: 41.33008/-75.82362
Caption:
Groundhog holes along channel (M)



Inspect ID: 2024-0026
Rated Item: 3. Encroachments
Lat/Long: 41.33008/-75.82362
Caption:
Groundhog holes along channel (M)



Inspect ID: 2024-0010

Rated Item: 4. Erosion

Lat/Long: 41.32788/-75.83323

Caption:

Multiple holes or burrows. Needs to be filled and animal removed. Could cause flooding if section fails. Some holes 1-3 feet deep (M)



Inspect ID: 2024-0007

Rated Item: 5. Concrete Surfaces

Lat/Long: 41.32937/-75.83376 **Caption:**

Typical conditions looking at weir structure at debris Basin (A)



Inspect ID: 2024-0007
Rated Item: 5. Concrete Surfaces
Lat/Long: 41.32937/-75.83376
Caption:
Typical conditions (A)



Inspect ID: 2024-0008
Rated Item: 5. Concrete Surfaces
Lat/Long: 41.32889/-75.83367
Caption:
Typical conditions of concrete reinforced rip rap (A)



Inspect ID: 2024-0008

Rated Item: 5. Concrete Surfaces

Lat/Long: 41.32889/-75.83367

Caption:

Typical conditions of concrete reinforced rip rap (A)



Inspect ID: 2024-0011

Rated Item: 5. Concrete Surfaces

Lat/Long: 41.32776/-75.83322 **Caption:**

Typical conditions of rip rap, some knottweed starting to grow and should be removed (A)



Inspect ID: 2024-0011

Rated Item: 5. Concrete Surfaces

Lat/Long: 41.32776/-75.83322

Caption:

Typical conditions of rip rap, Knottweed taking over, should be removed (M)



Inspect ID: 2024-0016

Rated Item: 5. Concrete Surfaces

Lat/Long: 41.32615/-75.83117

Caption:

Typical conditions of rip rap, Knottweed taking over, should be removed (M)



Inspect ID: 2024-0016

Rated Item: 5. Concrete Surfaces

Lat/Long: 41.32615/-75.83117

Caption:

Typical conditions of rip rap, Knottweed taking over, should be removed (M)



Inspect ID: 2024-0017

Rated Item: 5. Concrete Surfaces

Lat/Long: 41.32597/-75.83033

Caption:

Typical conditions of rip rap, Knottweed taking over, should be removed (M)



Inspect ID: 2024-0017

Rated Item: 5. Concrete Surfaces

Lat/Long: 41.32597/-75.83033

Caption:

Typical conditions of rip rap, Knotweed taking over, should be removed (M)



Inspect ID: 2024-0013

Rated Item: 10. Riprap Revetments & Banks

Lat/Long: 41.32671/-75.83240

Caption:

Typical conditions of rip rap, Knotweed taking over, should be removed (M)



Inspect ID: 2024-0013

Rated Item: 10. Riprap Revetments & Banks

Lat/Long: 41.32671/-75.83240

Caption:

Typical conditions of rip rap, Knottweed taking over, should be removed (M)



Inspect ID: 2024-0014

Rated Item: 10. Riprap Revetments & Banks **Lat/Long:**
41.32623/-75.83250

Caption:

Typical conditions of rip rap, Knottweed taking over, should be removed (M)



Inspect ID: 2024-0014

Rated Item: 10. Riprap Revetments & Banks **Lat/Long:** 41.32623/-75.83250

Caption:

Typical conditions of rip rap, Knottweed taking over, should be removed (M)



Inspect ID: 2024-0015

Rated Item: 10. Riprap Revetments & Banks
Lat/Long: 41.32629/-75.83163

Caption:

Typical conditions. At transition from rip rap to concrete. Note. Groundhog on right bank about 3 feet from channel bottom (M)



Inspect ID: 2024-0015

Rated Item: 10. Riprap Revetments & Banks

Lat/Long: 41.32629/-75.83163

Caption:

Typical conditions. At transition from rip rap to concrete. Note. Groundhog on right bank about 3 feet from channel bottom (M)



Inspect ID: 2024-0015

Rated Item: 10. Riprap Revetments & Banks

Lat/Long: 41.32629/-75.83163

Caption:

Typical conditions. At transition from rip rap to concrete. Note. Groundhog on right bank about 3 feet from channel bottom



Inspect ID: 2024-0015

Rated Item: 10. Riprap Revetments & Banks

Lat/Long: 41.32629/-75.83163

Caption:

Typical conditions. At transition from rip rap to concrete. Note. Groundhog on right bank about 3 feet from channel bottom (M)



Inspect ID: 2024-0022

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.32582/-75.82467

Caption:

Typical conditions, knottweed on both banks (M)



Inspect ID: 2024-0022

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.32582/-75.82467

Caption:

Typical conditions, knottweed on both banks (M)



Inspect ID: 2024-0023

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.32655/-75.82381

Caption:

Typical conditions. Unlined Channel, knottweed on both banks (M)



Inspect ID: 2024-0023

Rated Item: 11. Revetments other than Riprap **Lat/Long:**
41.32655/-75.82381

Caption:

Typical conditions. Unlined Channel, knottweed on both banks (M)



Inspect ID: 2024-0024

Rated Item: 11. Revetments other than Riprap
Lat/Long: 41.32792/-75.82381

Caption:

Typical conditions. Natural conditions channel bottom, knottweed on both banks (M)



Inspect ID: 2024-0024

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.32792/-75.82381

Caption:

Typical conditions. Natural conditions channel bottom, knottweed on both banks (M)



Inspect ID: 2024-0025

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.32926/-75.82386

Caption:

Typical conditions of natural channel, Knottweed on right bank (M)



Inspect ID: 2024-0025

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.32926/-75.82386

Caption:

Typical conditions of natural channel. Knottweed on right bank (M)



Inspect ID: 2024-0027

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33111/-75.82333

Caption:

Typical conditions at confluence of tributary, knottweed on both banks (M)



Inspect ID: 2024-0027

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33111/-75.82333

Caption:

Typical conditions. at confluence of tributary, note knotweed (M)



Inspect ID: 2024-0027

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33111/-75.82333

Caption:

Typical conditions. at confluence of tributary, note knotweed (M)



Inspect ID: 2024-0028

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33185/-75.82205

Caption:

Typical conditions of nature channel (A)



Inspect ID: 2024-0028

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33185/-75.82205

Caption:

Typical conditions of nature channel (A)



Inspect ID: 2024-0029

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33528/-75.81816

Caption:

Typical conditions of natural channel. Note Knotweed (M)



Inspect ID: 2024-0029

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33528/-75.81816

Caption:

Typical conditions of natural channel. Note Knotweed (M)



Inspect ID: 2024-0029

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33528/-75.81816

Caption:

Typical conditions of natural channel. Note Knottweed (M)



Inspect ID: 2024-0031

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33573/-75.81680

Caption:

Typical conditions of natural channel. Note Knottweed (M)



Inspect ID: 2024-0031

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33573/-75.81680

Caption:

Typical conditions of natural channel. Note Knottweed (M)



Inspect ID: 2024-0033

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33827/-75.81354

Caption:

Typical conditions of natural channel. Note Knottweed (M)



Inspect ID: 2024-0033

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.33827/-75.81354

Caption:

Typical conditions of natural channel. Note Knottweed (M)



Inspect ID: 2024-0034

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.34040/-75.80708

Caption:

Typical conditions of natural channel. Note Knottweed (M)



Inspect ID: 2024-0034

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.34040/-75.80708

Caption:

Typical conditions of natural channel (A)



Inspect ID: 2024-0034

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.34040/-75.80708

Caption:

Typical conditions of natural channel. Note Knottweed (M)



Inspect ID: 2024-0035

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.34109/-75.80499

Caption:

Typical conditions of natural channel at Federal levee tie out, (A)



Inspect ID: 2024-0035

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.34109/-75.80499

Caption:

Typical conditions of natural channel at Federal levee tie out (A)



Inspect ID: 2024-0035

Rated Item: 11. Revetments other than Riprap

Lat/Long: 41.34109/-75.80499

Caption:

Typical conditions of natural channel at Federal levee tie out (A)

Inspection Observation Report

Observation Number	0001
Observation Year	2024
Full Observation Number	2024-0001
Reinspected? (Y/N)	N
Original Observation Number	
Feature	Interior Drainage System
Rated Item	Ponding Areas
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Stilling Basin
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3296, -75.8334)
GPS End	
Latitude Start	41.3296
Latitude End	
Longitude Start	-75.8334
Longitude End	
Observation Date	6/5/2024
Description of Observation	Outlet structure. Debris basin is full. Sponsor stated they are planning to clean out. Has been to wet

Observation Number	0002
Observation Year	2024
Full Observation Number	2024-0002
Reinspected? (Y/N)	N
Original Observation Number	
Feature	Interior Drainage System
Rated Item	Vegetation and Obstructions
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Landside Slope and Crown
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3295, -75.8335)
GPS End	
Latitude Start	41.3295

Inspection Observation Report

Latitude End	
Longitude Start	-75.8335
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions

Observation Number	0003
Observation Year	2024
Full Observation Number	2024-0003
Reinspected? (Y/N)	N
Original Observation Number	
Feature	Interior Drainage System
Rated Item	Vegetation and Obstructions
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Landside Slope and Crown
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3296, -75.8334)
GPS End	
Latitude Start	41.3296
Latitude End	
Longitude Start	-75.8334
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions

Observation Number	0004
Observation Year	2024
Full Observation Number	2024-0004
Reinspected? (Y/N)	N
Original Observation Number	
Feature	Interior Drainage System
Rated Item	Ponding Areas
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Stilling Basin
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point

Inspection Observation Report

Station Start	
Station End	
GPS Start	(41.3299, -75.8333)
GPS End	
Latitude Start	41.3299
Latitude End	
Longitude Start	-75.8333
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions. Basin is full

Observation Number	0005
Observation Year	2024
Full Observation Number	2024-0005
Reinspected? (Y/N)	N
Original Observation Number	
Feature	Interior Drainage System
Rated Item	Trash Racks (non-mechanical)
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Stilling Basin
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3297, -75.8335)
GPS End	
Latitude Start	41.3297
Latitude End	
Longitude Start	-75.8335
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions

Observation Number	0006
Observation Year	2024
Full Observation Number	2024-0006
Reinspected? (Y/N)	N
Original Observation Number	
Feature	Interior Drainage System
Rated Item	Vegetation and Obstructions
Rating Code	SV

Inspection Observation Report

Rating Description	No User Rating (Site Visit)
Location	Landside Slope and Crown
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3295, -75.8338)
GPS End	
Latitude Start	41.3295
Latitude End	
Longitude Start	-75.8338
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions

Observation Number	0007
Observation Year	2024
Full Observation Number	2024-0007
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Concrete Surfaces
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3294, -75.8338)
GPS End	
Latitude Start	41.3294
Latitude End	
Longitude Start	-75.8338
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions

Observation Number	0008
Observation Year	2024
Full Observation Number	2024-0008

Inspection Observation Report

Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Concrete Surfaces
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3289, -75.8337)
GPS End	
Latitude Start	41.3289
Latitude End	
Longitude Start	-75.8337
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions of concrete reinforced rip rap

Observation Number	0009
Observation Year	2024
Full Observation Number	2024-0009
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Encroachments
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Left Bank
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3286, -75.8335)
GPS End	
Latitude Start	41.3286
Latitude End	
Longitude Start	-75.8335
Longitude End	
Observation Date	6/5/2024

Inspection Observation Report

Description of Observation	Tree growing right at top of concrete rip rap. Should be removed
----------------------------	--

Observation Number	0010
Observation Year	2024
Full Observation Number	2024-0010
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Erosion
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Right Bank
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3279, -75.8332)
GPS End	
Latitude Start	41.3279
Latitude End	
Longitude Start	-75.8332
Longitude End	
Observation Date	6/5/2024
Description of Observation	Multiple holes or burrows. Needs to be filled and animal removed. Could cause flooding if section fails. Some holes 1-3 feet deep

Observation Number	0011
Observation Year	2024
Full Observation Number	2024-0011
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Concrete Surfaces
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3278, -75.8332)
GPS End	

Inspection Observation Report

Latitude Start	41.3278
Latitude End	
Longitude Start	-75.8332
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions of rip rap

Observation Number	0012
Observation Year	2024
Full Observation Number	2024-0012
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Encroachments
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Left Bank
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3272, -75.8331)
GPS End	
Latitude Start	41.3272
Latitude End	
Longitude Start	-75.8331
Longitude End	
Observation Date	6/5/2024
Description of Observation	18 inch storm drain

Observation Number	0013
Observation Year	2024
Full Observation Number	2024-0013
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Riprap Revetments & Banks
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N

Inspection Observation Report

Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3267, -75.8324)
GPS End	
Latitude Start	41.3267
Latitude End	
Longitude Start	-75.8324
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions. Overgrown with knottweed

Observation Number	0014
Observation Year	2024
Full Observation Number	2024-0014
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Riprap Revetments & Banks
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3262, -75.8325)
GPS End	
Latitude Start	41.3262
Latitude End	
Longitude Start	-75.8325
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions

Observation Number	0015
Observation Year	2024
Full Observation Number	2024-0015
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Riprap Revetments & Banks

Inspection Observation Report

Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3263, -75.8316)
GPS End	
Latitude Start	41.3263
Latitude End	
Longitude Start	-75.8316
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions. At transition from rip rap to concrete. Note. Groundhog on right bank about 3 feet from channel bottom

Observation Number	0016
Observation Year	2024
Full Observation Number	2024-0016
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Concrete Surfaces
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3261, -75.8312)
GPS End	
Latitude Start	41.3261
Latitude End	
Longitude Start	-75.8312
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions

Observation Number	0017
Observation Year	2024

Inspection Observation Report

Full Observation Number	2024-0017
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Concrete Surfaces
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3260, -75.8303)
GPS End	
Latitude Start	41.3260
Latitude End	
Longitude Start	-75.8303
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions. Knottweed growing into channel in multiple locations

Observation Number	0018
Observation Year	2024
Full Observation Number	2024-0018
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Encroachments
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3259, -75.8290)
GPS End	
Latitude Start	41.3259
Latitude End	
Longitude Start	-75.8290
Longitude End	

Inspection Observation Report

Observation Date	6/5/2024
Description of Observation	Typical conditions. Knottweed growing on both banks

Observation Number	0019
Observation Year	2024
Full Observation Number	2024-0019
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Shoaling (sediment deposition)
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3258, -75.8286)
GPS End	
Latitude Start	41.3258
Latitude End	
Longitude Start	-75.8286
Longitude End	
Observation Date	6/5/2024
Description of Observation	Concrete channel is 90% full of sediment. Concrete portion is 18 inch high. Sponsor needs to clean out

Observation Number	0020
Observation Year	2024
Full Observation Number	2024-0020
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Shoaling (sediment deposition)
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3256, -75.8283)

Inspection Observation Report

GPS End	
Latitude Start	41.3256
Latitude End	
Longitude Start	-75.8283
Longitude End	
Observation Date	6/5/2024
Description of Observation	Culvert is highly impacted by sediment. Estimate 25% blocked. Sponsor should clean out.

Observation Number	0021
Observation Year	2024
Full Observation Number	2024-0021
Reinspected? (Y/N)	N
Original Observation Number	
Feature	Interior Drainage System
Rated Item	Ponding Areas
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Stilling Basin
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3254, -75.8281)
GPS End	
Latitude Start	41.3254
Latitude End	
Longitude Start	-75.8281
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions. A few feet of sediment is in this basin. Basin should be removed

Observation Number	0022
Observation Year	2024
Full Observation Number	2024-0022
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Revetments other than Riprap
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved

Inspection Observation Report

Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3258, -75.8247)
GPS End	
Latitude Start	41.3258
Latitude End	
Longitude Start	-75.8247
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions. A lot of knottweed

Observation Number	0023
Observation Year	2024
Full Observation Number	2024-0023
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Revetments other than Riprap
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3266, -75.8238)
GPS End	
Latitude Start	41.3266
Latitude End	
Longitude Start	-75.8238
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions. Unlined channel

Observation Number	0024
Observation Year	2024
Full Observation Number	2024-0024
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels

Inspection Observation Report

Rated Item	Revetments other than Riprap
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3279, -75.8238)
GPS End	
Latitude Start	41.3279
Latitude End	
Longitude Start	-75.8238
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions. Natural conditions channel bottom. Lots of knottweed

Observation Number	0025
Observation Year	2024
Full Observation Number	2024-0025
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Revetments other than Riprap
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3293, -75.8239)
GPS End	
Latitude Start	41.3293
Latitude End	
Longitude Start	-75.8239
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions of natural channel. Knottweed on right bank

Observation Number	0026
--------------------	------

Inspection Observation Report

Observation Year	2024
Full Observation Number	2024-0026
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Encroachments
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Left Bank
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3301, -75.8236)
GPS End	
Latitude Start	41.3301
Latitude End	
Longitude Start	-75.8236
Longitude End	
Observation Date	6/5/2024
Description of Observation	Groundhog holes

Observation Number	0027
Observation Year	2024
Full Observation Number	2024-0027
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Revetments other than Riprap
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3311, -75.8233)
GPS End	
Latitude Start	41.3311
Latitude End	
Longitude Start	-75.8233

Inspection Observation Report

Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions. Note trib coming in

Observation Number	0028
Observation Year	2024
Full Observation Number	2024-0028
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Revetments other than Riprap
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3319, -75.8221)
GPS End	
Latitude Start	41.3319
Latitude End	
Longitude Start	-75.8221
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions of nature channel

Observation Number	0029
Observation Year	2024
Full Observation Number	2024-0029
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Revetments other than Riprap
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	

Inspection Observation Report

GPS Start	(41.3353, -75.8182)
GPS End	
Latitude Start	41.3353
Latitude End	
Longitude Start	-75.8182
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions of natural channel

Observation Number	0030
Observation Year	2024
Full Observation Number	2024-0030
Reinspected? (Y/N)	N
Original Observation Number	
Feature	Interior Drainage System
Rated Item	Ponding Areas
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Stilling Basin
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3360, -75.8173)
GPS End	
Latitude Start	41.3360
Latitude End	
Longitude Start	-75.8173
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions of swm facility.

Observation Number	0031
Observation Year	2024
Full Observation Number	2024-0031
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Revetments other than Riprap
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom

Inspection Observation Report

Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3357, -75.8168)
GPS End	
Latitude Start	41.3357
Latitude End	
Longitude Start	-75.8168
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions of natural channel

Observation Number	0032
Observation Year	2024
Full Observation Number	2024-0032
Reinspected? (Y/N)	N
Original Observation Number	
Feature	Interior Drainage System
Rated Item	Culverts / Discharge Pipes
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Other
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3383, -75.8134)
GPS End	
Latitude Start	41.3383
Latitude End	
Longitude Start	-75.8134
Longitude End	
Observation Date	6/5/2024
Description of Observation	SD discharge. Headwall tilting and erosion adjacent to structure

Observation Number	0033
Observation Year	2024
Full Observation Number	2024-0033
Reinspected? (Y/N)	N
Original Observation Number	

Inspection Observation Report

Feature	FRM Channels
Rated Item	Revetments other than Riprap
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3383, -75.8135)
GPS End	
Latitude Start	41.3383
Latitude End	
Longitude Start	-75.8135
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions of natural channel

Observation Number	0034
Observation Year	2024
Full Observation Number	2024-0034
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Revetments other than Riprap
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3404, -75.8071)
GPS End	
Latitude Start	41.3404
Latitude End	
Longitude Start	-75.8071
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions of natural channel

Inspection Observation Report

Observation Number	0035
Observation Year	2024
Full Observation Number	2024-0035
Reinspected? (Y/N)	N
Original Observation Number	
Feature	FRM Channels
Rated Item	Revetments other than Riprap
Rating Code	SV
Rating Description	No User Rating (Site Visit)
Location	Channel Bottom
Status	Unresolved
Monitor (Y/N)	N
Observation Type	Point
Station Start	
Station End	
GPS Start	(41.3411, -75.8050)
GPS End	
Latitude Start	41.3411
Latitude End	
Longitude Start	-75.8050
Longitude End	
Observation Date	6/5/2024
Description of Observation	Typical conditions of natural channel at Federal levee tie out



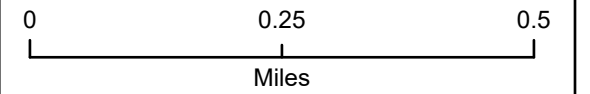
Inspection Map

Exeter - Hicks Creek

Year/cycle: 2024 A
 Inspection type: Formal
 Inspected by: USACE
 Inspection date(s): 6/05/2024
 Map created: 8/23/2024

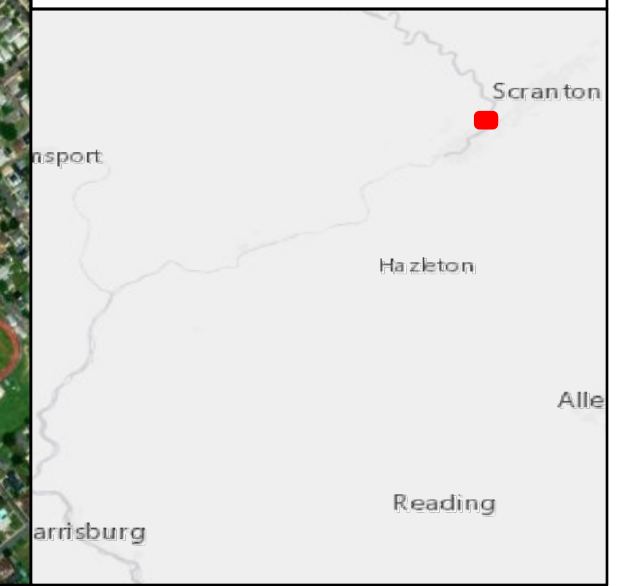
- Observation Points**
- Acceptable
 - Minimally Acceptable
 - Unacceptable
 - Not Applicable
- Observation Lines**
- Acceptable
 - Minimally Acceptable
 - Unacceptable
 - Not Applicable

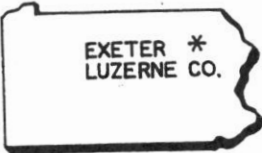
N



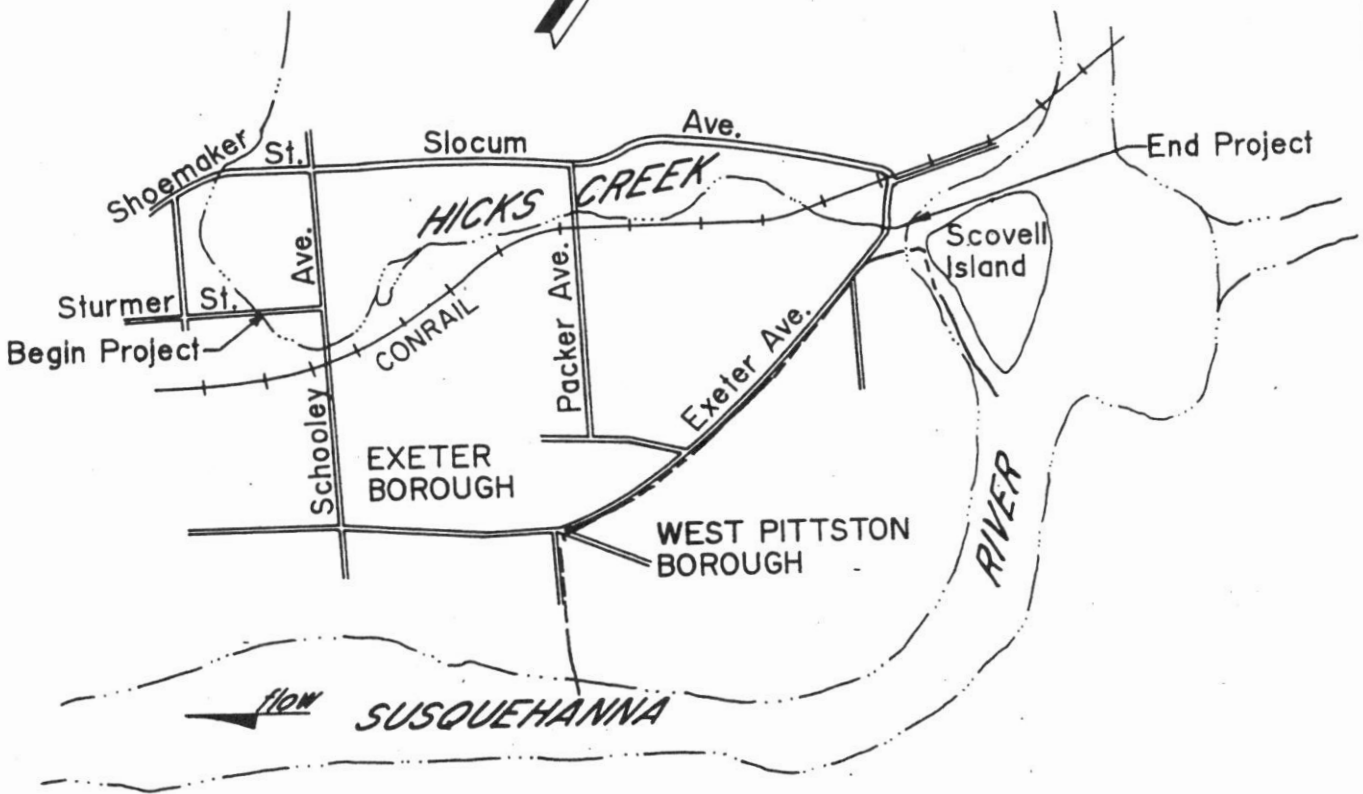
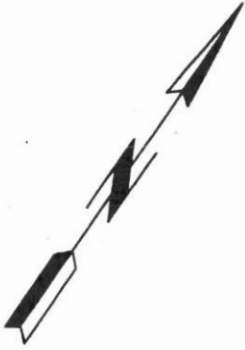
US Army Corps
of Engineers

1:12,070

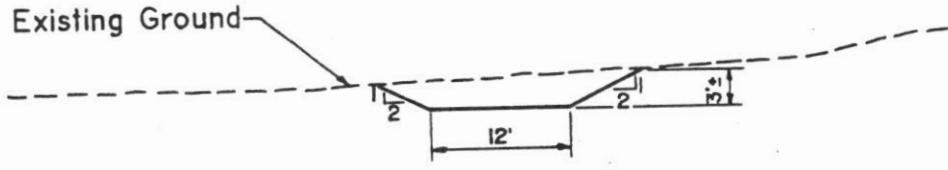
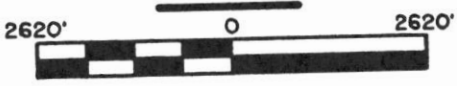




GENERAL LOCATION MAP



PLAN



TYPICAL CROSS SECTION

No Scale

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
C40:13
HICKS CREEK
CHANNEL IMPROVEMENT

HICKS CREEK CHANNEL IMPROVEMENT, C40:13

LOCATION: Hicks Creek, Exeter Borough, Luzerne County

QUADRANGLE: Pittston, **Latitude:** 41°20'30", **Longitude:** 75°49'30"

SPONSOR: Exeter Borough

PROJECT DESCRIPTION: The work consisted of channel improvement along 10,100 feet of Hicks Creek from Sturmer Street to the Susquehanna River levee. The channel improvement work included the deepening, widening, and realignment of the channel with the road culverts. The channel bottom width is 12 feet with 1V to 2H side slopes. Culverts were constructed at Schooley Avenue and Exeter Avenue.

DESIGNER: GEO-Technical Services, Harrisburg, Pa.

CONTRACT NO.: C40:13-101.1

PERMIT NO.: Unknown

BID OPENING: June 28, 1979

CONTRACT AWARD: July 10, 1979

LOW BIDDER: Allegheny Mountain Construction Co., Inc., Galeton, Pa.

PROJECT COMPLETED: December 22, 1980

CONSTRUCTION COST: \$666,918.98

DESIGN CRITERIA:

Drainage Area:	4.45	SM
Design Discharge:	650	CFS

QUANTITIES:	89,350	C.Y.	Excavation (All Types)
	2,100	C.Y.	Rolled Embankment
	3,150	C.Y.	Backfill (All Types)
	800	S.Y.	18-Inch Riprap
	148	C.Y.	Concrete (All Types)
	19,000	LBS.	Steel Reinforcement
	20	AC.	Seeding

Project turned over to sponsor for operation and maintenance on December 22, 1980.

HICKS CREEK FLOOD PROTECTION PROJECT, PHASE II, C40:13, DGS 182-5

LOCATION: Exeter Borough, Luzerne County

QUADRANGLE: Pittston, Latitude: 41°19'35", Longitude: 75°50'00"

SPONSOR: Exeter Borough

PROJECT DESCRIPTION: This project consists of a debris basin, with concrete drop inlet structure and debris rack; approximately 100 feet of 10'x 6' high rectangular concrete channel; approximately 160 feet of 5-foot-high derrick stone channel with a bottom width of 6 feet; approximately 1,149 feet of 5-foot-high riprap channel with a bottom width of 6 feet; approximately 974 feet of riprap channel with concrete invert, with a bottom width of 6 feet and height varying from 5 feet to 7 feet 6 inches; 30 feet of 12'x7' precast concrete box culvert under Sturmer Street, and a sediment basin at the downstream end of the project. The work also included a 130-foot-long x 10-foot-high rock filled gabion basket wall located 1,500 feet upstream of the debris basin.

DESIGNER: Department

CONTRACT NO.: DGS 182-5

PERMIT NO.: E40-303

D40-234

BID OPENING: May 2, 2001

CONTRACT AWARD: August 2, 2001

LOW BIDDER: Napcon, Inc., Wilkes-Barre, Pa. 18702

PROJECT COMPLETED AND TURNED OVER TO SPONSOR FOR OPERATION AND MAINTENANCE: October 9, 2002

CONSTRUCTION COST: \$937,245.87

DESIGN CRITERIA:

Drainage Area: 1.4 SM

Design Discharge: 650 CFS (DEP 100-YRS)

At Q Design, depth of water is 3.45 feet at Slocum Avenue culvert Sta. 4+50 giving 2.55 feet of Freeboard, and 4.49 feet at Sturmer Street

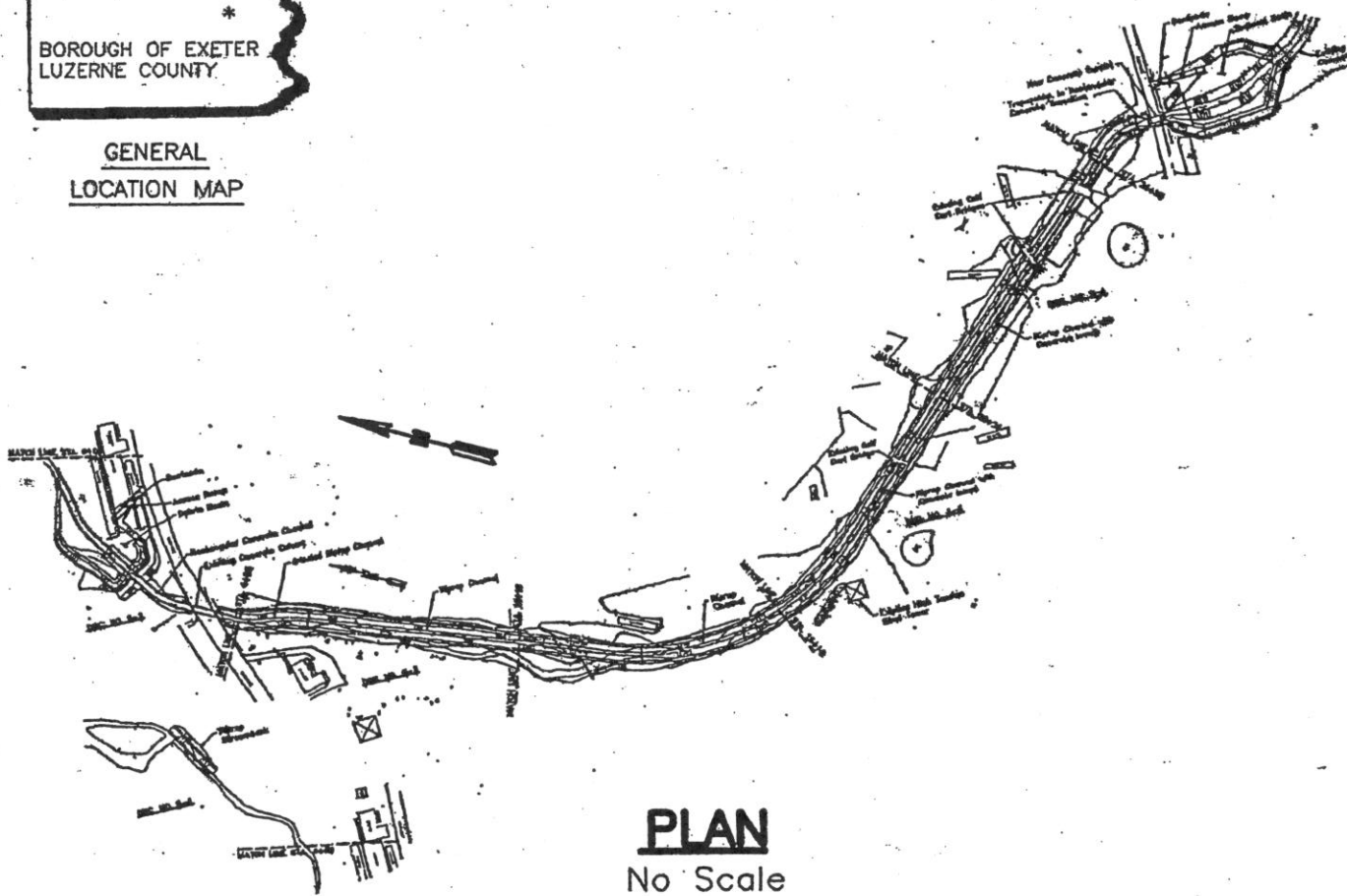
Culvert at Sta. 26+75, giving 2.51 feet of Freeboard.

QUANTITIES:

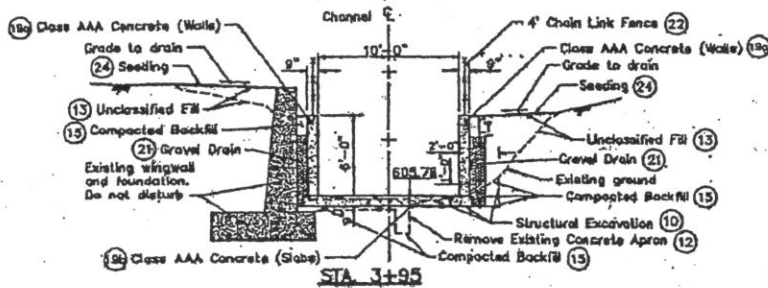
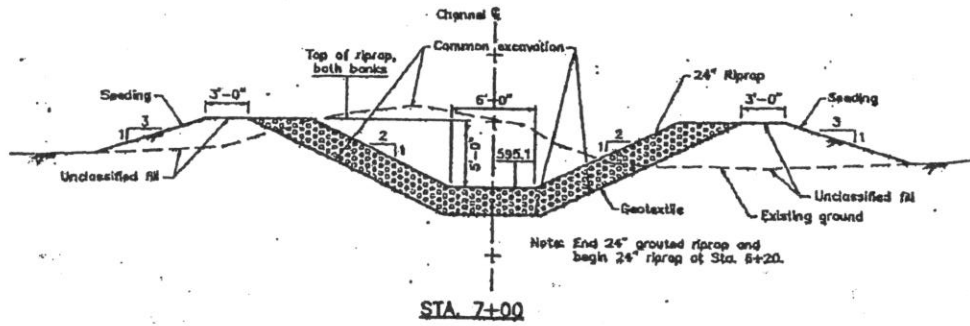
31,664	C.Y.	Excavation (Common, Structural)
825	C.Y.	Class AAA Concrete (Walls, Slabs, Deck)
2,402	C.Y.	Rolled Embankment
2,371	S.Y.	12" Riprap
2,655	S.Y.	18" Riprap
3,633	S.Y.	24" Riprap (Grouted)

BOROUGH OF EXETER
LUZERNE COUNTY

GENERAL
LOCATION MAP



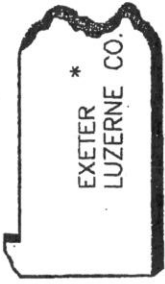
PLAN
No Scale



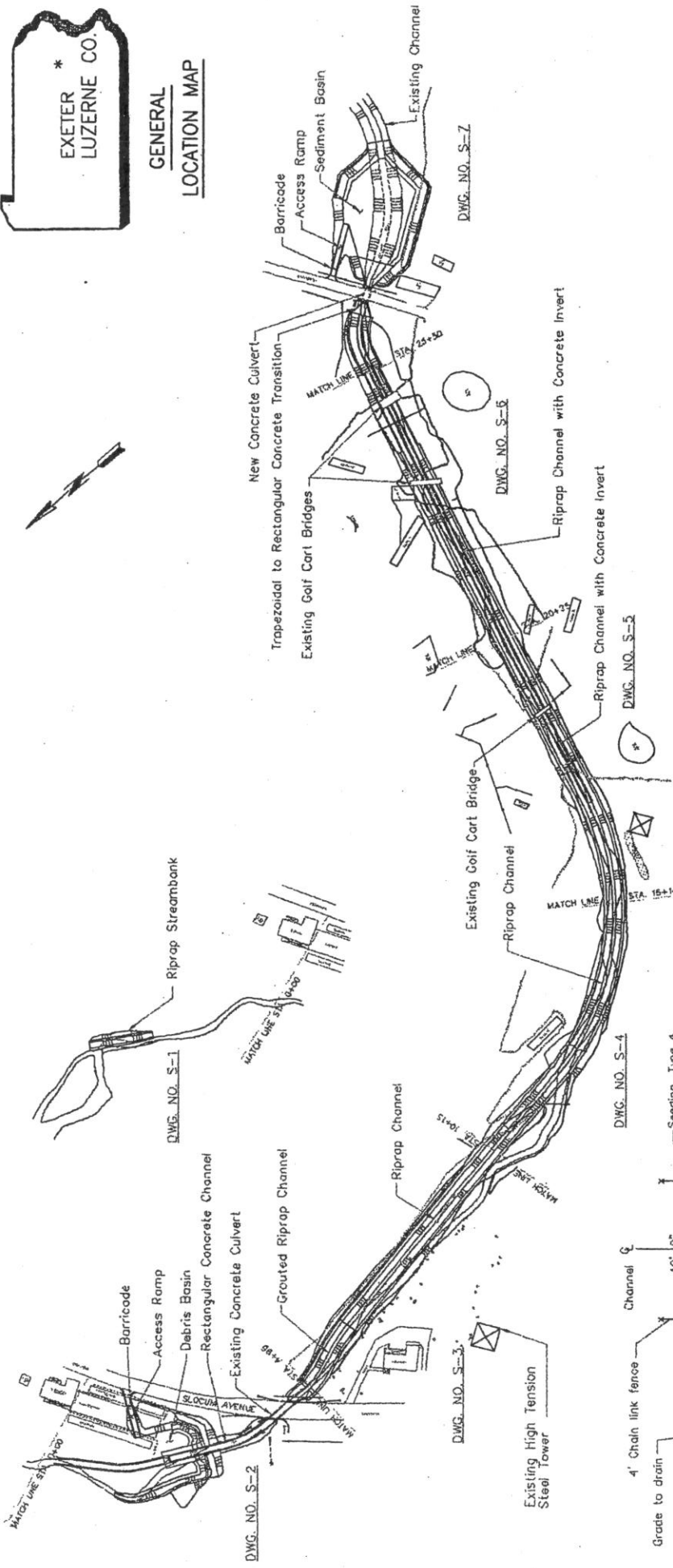
TYPICAL SECTIONS
No Scale

C40:13

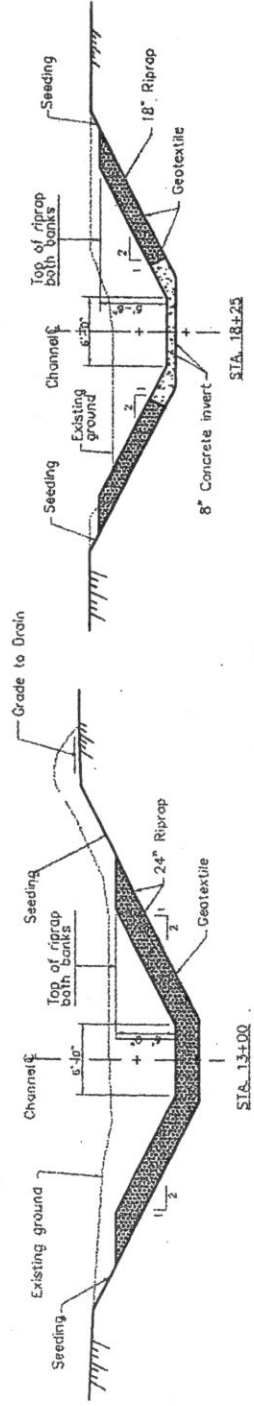
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURC
D.G.S. 182-5
BOROUGH OF EXETER
LUZERNE CO.
FLOOD PROTECTION



**GENERAL
LOCATION MAP**



PLAN
No Scale



TYPICAL SECTIONS
No Scale

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
D.G.S. 182-5
EXETER, LUZERNE
FLOOD PROTECTION PROJECT

Enclosure 3: Subset of Inspection Items for Rehabilitation Program Eligibility Determination

In order to be eligible, all of the following items must be rated A, M, N/A or Yes.

Note: Item numbers listed below refer to their placement in the Inspection Checklist (Enclosure 2).

Rehabilitation Program Eligibility Determination	
Yes <input type="checkbox"/> No <input type="checkbox"/>	Public sponsor provided maintenance information per the Public Sponsor Pre-Inspection Form.
Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Non-federal levee system meets Initial Eligibility criteria.
If either of the above items is marked "No" the levee system is not eligible.	
Rating	Rated Item
Levee Embankments	
A <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/>	3. Encroachments
A <input type="checkbox"/> U <input type="checkbox"/> N/A <input type="checkbox"/>	4. Closure Structures (Stop Log, Earthen Closures, Gates, or Sandbag Closures)
A <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/>	5. Slope Stability
A <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/>	6. Erosion/ Bank Caving
A <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/>	10. Animal Control
A <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> N/A <input type="checkbox"/>	11. Culverts/Discharge Pipes (This item includes both concrete and corrugated metal pipes.)
A <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> N/A <input type="checkbox"/>	14. Underseepage Relief Wells/Toe Drainage Systems
Floodwalls	
A <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/>	2. Encroachments
A <input type="checkbox"/> U <input type="checkbox"/> N/A <input type="checkbox"/>	3. Closure Structures (Stop Log Closures and Gates)
A <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/>	5. Tilting, Sliding, or Settlement of Concrete Structures

A <input type="checkbox"/>	<input type="checkbox"/>	6. Foundation of Concrete Structures
M <input type="checkbox"/>	<input type="checkbox"/>	
U <input type="checkbox"/>	<input type="checkbox"/>	
A <input type="checkbox"/>	<input type="checkbox"/>	8. Underseepage Relief Wells/Toe Drainage Systems
M <input type="checkbox"/>	<input type="checkbox"/>	
U <input type="checkbox"/>	<input type="checkbox"/>	
N/A <input type="checkbox"/>	<input type="checkbox"/>	
Interior Drainage System		
A <input type="checkbox"/>	<input type="checkbox"/>	9. Culverts/Discharge Pipes
M <input type="checkbox"/>	<input type="checkbox"/>	
U <input type="checkbox"/>	<input type="checkbox"/>	
N/A <input type="checkbox"/>	<input type="checkbox"/>	
A <input type="checkbox"/>	<input type="checkbox"/>	10. Sluice/Slide Gates
M <input type="checkbox"/>	<input type="checkbox"/>	
U <input type="checkbox"/>	<input type="checkbox"/>	
N/A <input type="checkbox"/>	<input type="checkbox"/>	
A <input type="checkbox"/>	<input type="checkbox"/>	11. Flap Gates/Flap Valves/Pinch Valves
M <input type="checkbox"/>	<input type="checkbox"/>	
U <input type="checkbox"/>	<input type="checkbox"/>	
N/A <input type="checkbox"/>	<input type="checkbox"/>	
Pump Stations		
A <input type="checkbox"/>	<input type="checkbox"/>	17. Intake and Discharge Pipelines
M <input type="checkbox"/>	<input type="checkbox"/>	
U <input type="checkbox"/>	<input type="checkbox"/>	
A <input type="checkbox"/>	<input type="checkbox"/>	18. Sluice/Slide Gates
M <input type="checkbox"/>	<input type="checkbox"/>	
U <input type="checkbox"/>	<input type="checkbox"/>	
N/A <input type="checkbox"/>	<input type="checkbox"/>	
A <input type="checkbox"/>	<input type="checkbox"/>	19. Flap Gates/Flap Valves/Pinch Valves
M <input type="checkbox"/>	<input type="checkbox"/>	
U <input type="checkbox"/>	<input type="checkbox"/>	
N/A <input type="checkbox"/>	<input type="checkbox"/>	
Rehabilitation Program Status		
Active <input type="checkbox"/>	System meets all interim eligibility criteria, including having received a rating of A, M, N/A or Yes for all subset items and is therefore eligible for rehabilitation assistance.	
Inactive <input type="checkbox"/>	System does not meet interim eligibility requirements.	
Comments:		