



REPLY TO  
ATTENTION OF

## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

September 19, 2017

Operations and Technical Support Section

SUBJECT: FY16 Joint Routine Inspection of Completed Works, Flood Risk Management Project, Genesee River and Dyke Creek, Wellsville, New York (09/23/16)

Alan A. Fuchs, P.E.  
NYSDEC - Division of Water  
Bureau of Flood Protection & Dam Safety  
625 Broadway  
Albany, NY 12233-3504

Dear Mr. Fuchs:

Transmitted herewith is the FY16 Inspection of Completed Works (ICW) inspection report for the Flood Risk Management Project at Genesee River and Dyke Creek, Wellsville, New York. Thank you for your agency's participation in this inspection. The rating for this project as determined by the current inspection is **"UNACCEPTABLE" (U)**. The three levee systems which comprise this project, Genesee River – Left Bank; Genesee River – Right Bank; and Dyke Creek – Left Bank have also been rated **"UNACCEPTABLE" (U)**. In accordance with USACE's Interim Policy on Eligibility Status of Flood Risk Management Projects for Rehabilitation Program pursuant Public Law 84-99, this project is **"ACTIVE"** in USACE's Rehabilitation Program (RP) due to not having any **"UNACCEPTABLE" (U)** critical deficiency items as listed on Attachment "H" - Rehabilitation Program Eligibility Determination Checklist.

The enclosed inspection report includes two checklists (Attachments "C" and "D") describing project deficiencies by category and two summaries of deficiencies and recommendations (Attachment "A" and "B") for the Left Bank and Channel, and Right Bank and Dyke Creek, respectively. Attachments "C" and "D" also include a two page section labeled "Public Sponsor Pre-Inspection Report". The local sponsor should complete this section just prior to the next scheduled inspection and provide to the United States Army Corps of Engineers (USACE) inspector upon arrival. The "Reporting Period" is the timeframe between inspections (i.e. inspection date of this report and date of next scheduled inspection).

Please keep USACE informed if there are changes to the project that would affect the design level of protection afforded by the project or if there are any other changes which may alter or impact project features. Such changes require prior written approval from NYSDEC & USACE.

Questions pertaining to this matter should be directed to the undersigned, who can be contacted in writing at the above address, by telephone at 716-879-4277, or by e-mail at [robert.w.remmers@usace.army.mil](mailto:robert.w.remmers@usace.army.mil).

Subject: FY16 Joint Routine Inspection of Completed Works, Flood Risk Management Project,  
Genesee River and Dyke Creek, Wellsville, New York (09/23/16)

Sincerely,

Robert W. Remmers, P.E., PMP  
Levee Safety Program Manager  
Chief, Operations and Technical Support Section

Enclosures

CF: (w/encls)

Theodore Myers, NYSDEC - Region 9

Stephen Len, NYSDEC - Division of Water, Flood Control Project Unit (e-copy)

Jeff Luckey, Allegany County Office of Emergency Management (e-copy)

Douglas Winner, NYS DHSES, OEM Region V – Western NY (e-copy)

Brian Shumon, FEMA - Region II (e-copy)

**Subject: FY16 Joint Routine Inspection of Completed Works, Flood Damage Reduction Project, Genesee River and Dyke Creek, Wellsville, New York (09/23/16)**

1. **OBJECTIVE:** The objective of this inspection is to assure project sponsor compliance with existing agreements, evaluate effectiveness of the sponsor to operate and maintain facilities constructed by the United States in accordance with the Operations and Maintenance (O&M) manual, and to determine if the sponsor has adequately met standards required to maintain eligibility for PL 84-99 Federal rehabilitation assistance should the project be damaged by flooding or a storm event.
2. **PROJECT CLASSIFICATION:** Flood Risk Management – Flood Protection
3. **REPORTING PERIOD:** 09/10/15 to 09/26/16
4. **INSPECTION TEAM:** The inspection team met at the project site on 09/26/16. The following representatives from the New York State Department of Environmental Conservation (NYSDEC), Village of Wellsville, and U.S. Army Corps of Engineers (USACE) – Buffalo District participated in the inspection.

<b>Name</b>	<b>Organization</b>	<b>Email/Phone #</b>
Robert Remmers	USACE – Buffalo District	(716) 879-4277
Joseph Kasperski	USACE – Buffalo District	(716) 879-4313
Thomas Brown	USACE – Buffalo District	(716) 879-4384
Joshua Kennedy	USACE – Buffalo District	(716) 879-4417
Theodore Myers	NYSDEC – Region 9	(716) 851-7070
Joel Warner	NYSDEC – Region 9	(716) 372-9594
Larry Middaugh	NYSDEC – Region 9	(716) 372-9594
Jo Fenske	Village of Wellsville, DPW	(585) 596-1755
Bradley Mattison	Village of Wellsville, DPW	(585) 610-8486

5. **OVERALL PROJECT RATING:** This Flood Risk Management Project has three levee systems: Left Bank and Channel, Right Bank, and Dyke Creek. In accordance with USACE - Headquarters guidance, all three levee systems are rated “**Unacceptable**” (U). This inspection is a reinstatement eligibility inspection and, as a result, all three levee systems for this project have been made “**ACTIVE**” again in the USACE Rehabilitation Program. The effective date for the reinstatement to “**ACTIVE**” status is 1/15/16, per USACE letter included as attachment “H” of this report.

The presence of one or more deficient conditions that lessen the degree of project reliability was the determining factor for the project ratings. Specific deficiencies are discussed in Section 7 of this report. All deficiencies must be addressed in a timely manner. Failure to correct any deficiencies that have been noted as either minor or serious by the timeframe indicated could result in a continued “Unacceptable” (U) rating for the next inspection.

Prior to this evaluation, the project was last inspected (with an inspection report) on 09/10/15. The condition of the project at that time of the inspection was rated as “Unacceptable” (U) and the project was “INACTIVE” in the USACE Rehabilitation Program.

**Subject: FY16 Joint Routine Inspection of Completed Works, Flood Damage Reduction Project, Genesee River and Dyke Creek, Wellsville, New York (09/23/16)**

**6. PROJECT LOCATION, DESCRIPTION, AND LOCAL SPONSOR:**

- a. **Project Location:** The project is located along the Genesee River and Dyke Creek in the Village and Town of Wellsville, New York. The project extends along the Genesee River from about 2,700 feet downstream of the Bolivar Road bridge to 4,900 feet upstream of the confluence with Dyke Creek. The project limits along Dyke Creek extend from the confluence with the Genesee River to about 4,025 feet upstream.
- b. **Project Description:** The project consists of channel improvements, levees, drop structures, weirs, concrete lined channels, and interior drainages structures. The Genesee River was deepened to provide a uniform grade with bottom widths of 100 to 135 feet downstream of Dyke Creek and 100 to 160 feet wide upstream of Dyke Creek. A major realignment was made upstream of Bolivar Road to eliminate two sharp curves along with other realignments to ease lesser curves. A concrete drop structure was constructed between Bolivar and Pearl Streets. Steel sheet pile weirs were constructed at the upper end of the project. Low levees were constructed along the Genesee River on the right bank, and along the left bank between Chamberlain Street and Stevens Street, between State Street and West Dyke Street, and at the upstream limit of the project. The Dyke Creek channel was deepened with a bottom width of 50 to 70 feet, with a drop structure at Miller Street. A levee was constructed along the left bank of Dyke Creek, upstream of Miller Street. Existing drainage facilities throughout the project were altered to provide better entrances into the improved channel and to prevent backflow at high river stages. The project was designed to alleviate flooding within the Village and Town of Wellsville.

The original project was completed in 1958 and additional bank protection added later in 1958 and 1959. In 1972, the runoff from Tropical Storm Agnes caused extensive damage to the project and restoration work was completed in September 1972. Rectification work was undertaken in 1973 and again in 1976. NYSDOT added additional bank protection in 1974 in conjunction with the relocation of 1,900 feet of the river. An emergency rehabilitation project was completed in 1997 to repair damages from a damaging flood in 1996. Repairs were made along the left bank of the Genesee River, between State Street and barrier levee upstream of West Dyke Street, and along the left bank of Dyke Creek, between Broad Street and the upstream limit of the project.

- c. **Local Sponsor:** In accordance with the project O&M Manual, NYSDEC - Region 9 is the local sponsor of the project and has assumed responsibility for the operation and maintenance of the project.

**7. INSPECTION FINDINGS:** Deficiencies found during this inspection are noted in the following attachments:

- Attachment “A” – Genesee River - Left Bank and Channel, Wellsville – Summary of Deficiencies and Recommendations
- Attachment “B” – Genesee River - Right Bank and Dyke Creek, Wellsville – Summary of Deficiencies and Recommendations



**Subject: FY16 Joint Routine Inspection of Completed Works, Flood Damage Reduction Project, Genesee River and Dyke Creek, Wellsville, New York (09/23/16)**

- Attachment “C” – Genesee River - Left Bank and Channel, Wellsville – Flood Damage Reduction System Inspection Report
- Attachment “D” – Genesee River - Right Bank and Dyke Creek, Wellsville – Flood Damage Reduction System Inspection Report
- Attachment “E” – Genesee River - Left Bank and Channel, Wellsville – Levee Inspection Map
- Attachment “F” – Genesee River - Right Bank and Dyke Creek, Wellsville – Levee Inspection Map
- Attachment “H” – Rehabilitation Program Eligibility Determination Checklist

The three levee systems that comprise this project (Genesee River – Left Bank, Genesee River – Right Bank, and Dyke Creek – Left Bank) have been rated “UNACCEPTABLE” (U).

**8. SUMMARY OF MAINTENANCE REQUIRED BY LAST INSPECTION REPORT:**

See FY15 Inspection Report (inspection date 09/10/15).

**9. SUMMARY OF MAINTENANCE PERFORMED AFTER LAST INSPECTION:**

(1) Local sponsor provided a summary of maintenance performed after last inspection at the time of inspection.

(2) Routine mowing.

(3) Flood debris was removed.

(4) Routine gate maintenance

(5) Hired engineering consultant to plan pipe repairs

**10. SUMMARY OF CHANGES TO PROJECT SINCE LAST INSPECTION:**

None.

**11. PROBLEMS/ISSUES REQUIRING ASSISTANCE OF USACE:**

(1) PROJECT ALTERATIONS:

a.) An alteration (formerly called “modification”) is a new or existing change (including encroachments) to a federally-constructed, locally operated and maintained project, within the project’s permanent easements. In accordance with 33 U.S.C. 408, all alterations must be reviewed and approved by USACE. Requests for alterations are initiated by the “Requestor”, who can be any project stakeholder; including the sponsor, general public, or any other interested party. Sponsors must endorse requests from third party entities and ensure that proper operation and maintenance of the alteration is followed. To make an alteration request, the sponsor is required to submit USACE Buffalo District form entitled,

**Subject: FY16 Joint Routine Inspection of Completed Works, Flood Damage Reduction Project, Genesee River and Dyke Creek, Wellsville, New York (09/23/16)**

“Section 408 Request to Alter, Impact, or Encroach upon a Buffalo District Inspection of Completed Works Project”; to include design criteria, as-built drawings, operations and maintenance requirements, and other pertinent documents and information. A copy of the form, either hard copy or an electronic version (fillable pdf), may be obtained by contacting the USACE Buffalo District Levee Safety Program Manager. This form may be used for either existing or new (proposed) alteration requests. Use one form for each unique alteration type. Similar alterations may be combined on one form. New alterations shall be approved in advance of the work.

For existing unauthorized alterations, an after-the-fact review and approval will be required by USACE for each change to determine whether or not the change can be approved or correction/removal will be required. A rating of “M” or “U” will be assigned to existing unauthorized alterations under the “encroachments” item on the checklist, depending on potential impacts to the functioning of the project, until either approval by USACE has been granted or the alteration removed or corrected. Should any of the cited alterations have been previously approved by USACE, the local sponsor shall submit approval documentation as proof.

b.) The following project alterations have been submitted by the sponsor and are currently being reviewed by USACE:

- i. Riverwalk trail under Bolivar Road bridge – awaiting additional information from Village of Wellsville.

c.) The following project alterations have been submitted by the sponsor and approved by USACE:

- i. Drainage swale berm at former Sinclair Refinery lagoon (approved 9/7/10).
- ii. Route 417 bridge replacement over Dyke Creek.

(2) VIDEOTAPING OF PIPE INSPECTIONS: NYSDEC has successfully completed pipe video inspections for all outfalls through the project’s levees. Original submission of pipe videotape inspections was received on 1/10/14. NYSDEC did a reanalysis of the data and resubmitted the results to the Corps on 9/30/14. Next pipe videotape inspection evaluation report is due on 1/10/19 (5 years after original submission).

(3) ISSUES:

- i. Gap in levee protection – project was built with gap between left bank levee and high ground where Chamberlain ditch discharges into the Genesee River. Project was apparently built this way. Potential for flooding in this area during large storm event.
- ii. Approximately 60 feet of the northeast end of the right bank barrier levee has been removed. Potential for flooding in this area during large storm event.

**12. ADDITIONAL OBSERVATIONS:**

(1) Local Sponsor did have a copy of the project O&M Manual.

**Subject: FY16 Joint Routine Inspection of Completed Works, Flood Damage Reduction Project, Genesee River and Dyke Creek, Wellsville, New York (09/23/16)**

(2) Local Sponsor provided a summary of maintenance performed after last inspection at the time of this inspection.

(3) The Genesee River and Dyke Creek channels are generally clear of debris and obstructions, however, most of the riprap areas within the project are covered with heavy vegetation making it difficult to impossible to assess the condition of the riprap, levees, pipes, and channel sideslopes.

(4) Significant areas of shoaling were present during the inspection.

**13. RECOMMENDATIONS AND MAINTENANCE REQUIRED AS A RESULT OF THIS INSPECTION:**

Required maintenance for deficiencies found during this inspection are noted in the “Action” columns of Attachments “A” & “B” and in the “Location/Remarks/Recommendations” sections of Attachments “C” & “D.”

**14. INSPECTION REPORT PREPARED BY:**

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Thomas A. Brown, IE  
Civil Engineer  
Operations and Technical Support Section

**15. INSPECTION REPORT REVIEWED BY:**

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Robert W. Remmers, P.E., PMP  
Levee Safety Program Manager  
Chief, Operations and Technical Support Section

**16. LIST OF ATTACHMENTS:**

- Attachment “A” – Genesee River - Left Bank and Channel, Wellsville – Summary of Deficiencies and Recommendations
- Attachment “B” – Genesee River - Right Bank and Dyke Creek, Wellsville – Summary of Deficiencies and Recommendations
- Attachment “C” – Genesee River - Left Bank and Channel, Wellsville – Flood Damage Reduction System Inspection Report
- Attachment “D” – Genesee River - Right Bank and Dyke Creek, Wellsville – Flood Damage Reduction System Inspection Report
- Attachment “E” – Genesee River - Left Bank and Channel, Wellsville – Levee Inspection Map

**Subject: FY16 Joint Routine Inspection of Completed Works, Flood Damage Reduction Project, Genesee River and Dyke Creek, Wellsville, New York (09/23/16)**

- Attachment “F” – Genesee River - Right Bank and Dyke Creek, Wellsville - Levee Inspection Map
- Attachment “G” – Project Map
- Attachment “H” – Activation Letter & Rehabilitation Program Eligibility Determination Checklist

Attachment “A” –  
Genesee River - Left Bank and Channel, Wellsville  
Summary of Deficiencies and Recommendations

Attachment "A" - Summary of Deficiencies and Recommendations

Genesee River, Wellsville - Left Bank and Channel (9/23/16)

ID#	Deficiency	Recommendation	Rating	Category	Due Date	Station 1	Station 2
38	Chamberlain Street drainage channel creates apparent gap in line of protection on left bank levee.	Evaluate the possibility of altering the project to improve a continuous line of protection; potentially include a pipe and flapgate.	M	Levee Embankments	12/31/17 (FY15 - 31)	69+00	NA
43	Unauthorized Alteration (A-15) - Grey shed, timbers,and debris encroaching on landside slope at 70 Seneca Street on left bank 1,700' downstream of Madison Street (Stevens Street) bridge.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 40)	60+00	NA
44	9 trees and 1 tree stump within 15' of levee landside toe 1,600' downstream of Madison Street (Stevens Street) bridge (60, 68, and 70 Seneca Street).	Remove trees and tree stump.	M	Levee Embankments	12/31/17 (FY15 - 39)	61+00	58+00
45	Inadequate sod cover at 70 Chamberlain Street on landside slope.	Re-establish sod cover.	M	Levee Embankments	12/31/18 (FY16 - 45)	60+00	NA
46	Unauthorized Alteration (A-17) - Red shed, chain link fence, and wooden debris at 60 Seneca Street on left bank 1,600' downstream of Madison Street (Stevens Street) bridge (60 Seneca Street).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 41)	59+00	NA
47	Unauthorized Alteration (A-16) - Tree debris and metal debris on levee landside slope 1,600' downstream of Madison Street (Stevens Street) bridge (68 Seneca Street).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 42)	59+00	NA
53	Trees on left bank landside slope and within 15' of landside toe from 1,200' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.	Remove trees.	M	Levee Embankments	12/31/17 (FY15 - 44)	54+00	46+00
57	Unauthorized Alteration (U-24) - Utility pole on left bank 850' downstream of Madison Street (Stevens Street) bridge (just downstream of single gatewell).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 53)	52+00	NA
58	Unauthorized Alteration (U-25) - Guy wire w/in 15' of landside toe on left bank 850' downstream of Madison Street (Stevens Street) bridge(just downstream of single gatewell).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 54)	52+00	NA
74	Unauthorized Alteration (A-29) - Madison Street (Stevens Street) bridge (replaced Pearl Street bridge).	Submit Section 408 Alteration Request Form to USACE.	M	Levee Embankments	12/31/17 (FY15 - 67)	44+00	NA
75	Unauthorized Alteration (A-31) - concrete walkway at Wellsville High School (Manhole and Wellsville High School building are part of project.)	Submit Section 408 Alteration Request Form to USACE.	M	Levee Embankments	12/31/17 (FY15 - 75)	38+00	NA
76	Unauthorized Alteration (A-30) - Fence on left bank channel crest from Madison Street (Stevens Street) bridge to State Street bridge.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 70)	34+00	43+00
83	Unauthorized Alteration (A-37) - 4 Utility Poles on left bank 250' upstream of State Street bridge.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 83)	30+00	NA
84	Vegetation and woody growth in left bank riprap from State Street bridge to 950' upstream of State Street bridge. Not much vegetation from Sta. 29+00 to 27+00.	Remove vegetation and woody growth from riprap.	U	Levee Embankments	12/31/17 (FY15 - 81)	33+00	24+00
87	Multiple animal burrows (approx. half dozen) on left bank riverside slope 450' upstream of State Street bridge.	Fill animal burrows and improve animal control program.	M	Levee Embankments	12/31/17 (FY15 - 83)	28+00	NA
88	Unwanted vegetation and bushes on landside slope and within 15' of landside toe 500' upstream of State Street bridge.	Remove unwanted vegetation.	M	Levee Embankments	12/31/17 (FY15 - 85)	28+00	NA
89	Unauthorized Alteration (A-38) - Green metal stairs and concrete pad for access to Water Intake Unit in left bank riverside slope upstream of Steel Sheet Pile Weir (Water Intake Unit is part of project as shown on As-Constructed drawing 189-WEL-2/4).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 87)	27+00	NA
93	Unauthorized Alteration (A-41) - Asphalt sidewalk and guy wire at left bank levee landside toe.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/18 (FY16 - 93)	24+00	28+00
94	Unauthorized Alteration (A-42) - Utility pole on left bank landside slope 475' upstream of Steel Sheet Pile Weir (across from maintenance garage).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 92)	23+00	NA
95	Significant vegetation in left bank riprap from 400' to 700' upstream of steel sheet pile weir.	Remove vegetation from riprap.	U	Levee Embankments	12/31/17 (FY15 - 89)	21+00	24+00
121	Significant vegetation in riprap on left bank upstream and downstream of upstream limit weir.	Remove vegetation from riprap.	U	Levee Embankments	12/31/17 (FY15 - 118)	0+00	0+00
129	Unauthorized Alteration (A-48) - USACE levee on left bank at upstream end of project has been removed and replaced by a new levee (constructed by BP & Sinclair Refinery during landfill remediation). NYSDEC says approved.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 122)	0+00	NA

Attachment "A" - Summary of Deficiencies and Recommendations

Genesee River, Wellsville - Left Bank and Channel (9/23/16)

135	Unauthorized Alteration (A-18) - white concrete block shed, utility marker, and tree house on left bank levee landside slope at 52 and 48 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/18 (FY16 - 135)	57+00	NA
136	Unauthorized Alteration (A-19) - Utility line potentially buried in overbuilt levee section.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/18 (FY16 - 136)	57+00	53+00
137	Unauthorized Alteration (A-20) - Yellow garage on left bank levee lanside toe at 44 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/18 (FY16 - 137)	56+00	NA
138	Unauthoried Alteration (A-21) - Stone landscaping and tree debris on left bank levee landside slope; pool within 15 feet of landside toe at 48 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/18 (FY16 - 138)	56+00	NA
139	Unauthorized Alteration (A-22) - Dilapidated white garage and shed and patio deck at left bank levee landside toe;clothesline and pole on landside slope at 38 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/18 (FY16 - 139)	55+00	NA
140	Unauthorized Alteration (U-23) - Chicken wire fence on left bank levee landside toe and rope fence on waterside crest at 20 Chamberlain Street. Note: levee is overbuilt at this location (approx. 42 feet wide).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/18 (FY16 - 140)	55+00	NA
15	Lower supports of headwall railing are dislodged on left bank outfall 300' upstream of Bolivar Road bridge.	Repair headwall railing.	M	Interior Drainage System	12/31/17 (FY15 - 14)	88+00	NA
26	Soft unwanted vegetation obstructing outfall on left bank 900' upstream of Bolivar Road bridge.	Remove unwanted vegetation.	M	Interior Drainage System	12/31/17 (FY15 - 21)	82+00	NA
29	30" CMP outfall on left bank 1,600' upstream of Bolivar Road bridge is approx. 20% obstructed by minor sediment.	Remove sediment obstruction.	M	Interior Drainage System	12/31/17 (FY15 - 23)	75+00	NA
54	24" RCP on left bank 900' downstream of Madison Street (Stevens Street) bridge (rated M in NYSDEC 19DEC13 pipe inspection).	Repair pipe to acceptable condition.	M	Interior Drainage System	12/31/17 (FY15 - 46)	53+00	NA
61	Trees and unwanted vegetation on ponding area fence.	Remove trees and unwanted vegetation.	M	Interior Drainage System	12/31/17 (FY15 - 57)	50+00	47+00
101	48" CMP inlet to culvert under Dyke Street access road on left bank obstructed by vegetation 500' upstream of Steel Sheet Pile Weir.	Remove vegetation obstruction.	M	Interior Drainage System	12/31/17 (FY15 - 94)	23+00	NA
2	Grassy shoal (S-1) along right bank from 225' to 700' downstream of golf course pedestrian bridge.	Remove shoaling.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 4)	111+00	106+00
3	Unauthorized Alteration (A-1) - Pump station, intake pipe to pump station, and feeder pipes for golf course water.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 3)	104+00	NA
4	Unauthorized Alteration (A-2) - Green golf course pedestrian bridge 1,250' downstream of Boliver Road bridge. NYSDEC says permitted (need to verify).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 7)	104+00	NA
5	Four alternating vegetated shoals (S-2, S-3, S-4, S-5) on both banks from green golf course pedestrian bridge to Bolivar Road bridge.	Remove shoals.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 6)	103+00	92+00
7	Trees on right bank channel sideslope 900 feet downstream of Bolivar Street bridge.	Remove trees.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 7)	100+00	NA
8	Erosion at 2 outfalls (36" and 24" diameter) on LB upstream of pedestrian bridge. Pipe extension required.	Repair erosion and modify pipe.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 8)	100+00	NA
9	Unauthorized Alteration (A-3) - Riprap on right bank toe fron 300' upstream of pedestrian bridge to 300 feet downstream of Bolivar Street bridge.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 9)	100+00	93+00
12	Riprap missing or covered on left bank underneath Bolivar Road bridge.	Replace or uncover missing riprap.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 10)	91+00	NA
13	Unwanted heavy woody vegetation on both banks around Bolivar Road bridge.	Remove vegetation.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 15)	91+00	NA
14	Vegetation in riprap on right bank around Bolivar Road bridge.	Remove vegetation from riprap.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 16)	91+00	NA
16	Unauthorized Alteration (A-6) - 42" Outfall on left bank 300' upstream of Bolivar Road bridge (at Top's Plaza).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 17)	88+00	NA
18	Unauthorized Alteration (A-5) - Riverwalk kiosk on left bank channel crest.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 18)	85+00	NA
22	Shoaling (S-6) along right bank from 750' to 1,300' upstream of Bolivar Road bridge (near K-mart Plaza).	Remove shoaling.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 18)	83+00	78+00
23	Unwanted vegetation on both bank sideslopes from 750' upstream of Bolivar Road bridge to Madison Street bridge.	Remove unwanted vegetation.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 22)	84+00	44+00



Attachment "A" - Summary of Deficiencies and Recommendations

Genesee River, Wellsville - Left Bank and Channel (9/23/16)

25	Unauthorized Alteration (A-7) - 42" outfall on left bank 900' upstream of Bolivar Road bridge at K-Mart.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 20)	82+00	NA
27	Unauthorized Alteration (A-8) - pet sign and post encroachment on left bank channel crest.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 27)	77+00	NA
30	Unauthorized Alteration (A-10) - Asphalt access drive and gate on left bank 1,600' upstream of Bolivar Road bridge.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 24)	75+00	NA
31	Unauthorized Alteration (A-9) - 30" CMP outfall on left bank 1,600' upstream of Bolivar Road bridge (just downstram of gravel access drive).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 25)	75+00	NA
32	Unauthorized Alteration (A-11) - utility pole and 2 guy wires 1,700' upstream of Boliver Road bridge (just upstream of asphalt drive).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 26)	74+00	NA
33	Unauthorized Alteration (A-13) - Misc. landscaping encroachments (timbers and wooden planter) 1,900' to 2,200' upstream of Bolivar Road bridge (92 Seneca Street).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 28)	72+00	69+00
34	Vegetation in left bank riprap from 1,900' to 2,500' upstream of Bolivar Road bridge.	Remove vegetation from riprap.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 29)	72+00	66+00
35	Vegetation in riprap on both banks around Drop Structure	Remove vegetation in riprap.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 33)	66+00	NA
37	Vegetation obstructions in Chamberlain Street drainage channel to river.	Remove vegetation obstructions.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 30)	69+00	NA
39	Tree debris in channel just downstream of Drop Structure.	Remove tree debris.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 32)	66+00	NA
40	Unauthorized Alteration - Gage house on left bank 2,230' downstream of Madison Street (Stevens Street) bridge is in acceptable condition (NYSDEC says part of project, need to verify).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 34)	65+00	NA
41	Vegetation in riprap on left bank 2,200' to 900' downstream of Madison Street (Stevens Street) bridge.	Remove vegetation from riprap.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 36)	65+00	52+00
42	Significant woody unwanted vegetation on left bank channel sideslopes from 2,200' downstream of the Madison Street (Stevens Street) bridge to the Madison Street bridge.	Remove unwanted vegetation.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 37)	44+00	64+00
48	Shoal (S-7) on left bank toe, not part of as-built project (189-WEL-2/5).	Remove Shoal.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 48)	60+00	56+00
50	Vegetation in riprap on right bank from 1,600' to 1,300' downstream of Madison Street (Stevens Street) bridge.	Remove vegetation from riprap.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 48)	59+00	56+00
66	Unauthorized Aleteration (A-26) - Pearl Street bridge removed.	Submit Section 408 Alteration Request to USACE.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 124)	46+00	NA
67	Unauthorized Alteration (A-27) - Pipe Line bridge just upstream of Pearl Street bridge removed.	Submit Section 408 Alteration Request to USACE.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 125)	46+00	NA
68	Unauthorized Alteration (A-28) - Fence on left bank channel crest from 250' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 64)	46+00	44+00
69	Trees on left bank channel crest from 250' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.	Remove trees.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 65)	46+00	44+00
73	Minor shoaling (S-8) on left bank from 600' downstream of Madison Street (Stevens Street) bridge to State Street bridge.	Remove shoaling.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 60)	49+00	0+00
77	Unauthorized Alteration (A-32) - Fence (covered in unwanted vegetation) 300' downstream of State Street bridge .	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 76)	38+00	NA
79	Unauthorized Alteration (A-33) - Wellsville High School rail, parking lot, and 2 signs on left bank levee downstream of State Street bridge.	Submit Section 408 Alteration Request Form to USACE.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 77)	37+00	NA
80	Significant unwanted vegetation and trees on left bank 400' downstream of State Street bridge.	Remove unwanted vegetation and trees.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 78)	37+00	NA
81	Unauthorized Alteration (A-36) - 18" HDPE outfall and duck bill valve on left bank side slope just downstream of State Street bridge owned by NYSDOT. (NYSDEC says permitted)	Submit Section 408 Alteration Request to USACE	M	Flood Damage Reduction Channels	NA	34+00	NA
82	Unauthorized Alteration (A-34) - 2 utility poles 6 guy wires 75' downstream of State Street bridge (NYSDEC says permitted).	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 80)	35+00	NA
91	Unauthorized Alteration (A-39) - Fishing access platform and fence on right bank 200' upstream of Steel Sheet Pile Weir.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 88)	25+00	NA
92	Unauthorized Alteration (A-40) - Unidentified drainage structure on channel side slope on left bank.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 92)	26+00	NA



Attachment "A" - Summary of Deficiencies and Recommendations

Genesee River, Wellsville - Left Bank and Channel (9/23/16)

98	Unauthorized Alteration (A-43) - Parking lot and wooden post barrier on right bank in Island Park 500' upstream of Steel Sheet Pile Weir. Posts and wire rope restrict access.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 95)	22+00	NA
99	Unauthorized Alteration (A-44) - Riprap added on right bank toe.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 99)	21+00	17+00
102	Shoaling (S-9) along left bank toe from 450' downstream of Island Park pedestrian walkway bridge to Island Park Pedestrian Walkway Bridge.	Remove shoaling.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 96)	17+00	21+00
109	Erosion and animal burrow on left bank.	Repair erosion and animal burrow.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 109)	13+00	NA
110	Unauthorized Alteration (A-46) - Wellsville, Addison, & Galeton Railroad railway rocks obstructing access 575' downstream of barrier levee weir.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 102)	6+00	NA
112	Significant vegetation in riprap on right bank from 400' downstream of upstream limit weir to barrier levee weir.	Remove vegetation from riprap.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 104)	4+00	0+00
114	Minor shoal (S-10) downstream of barrier levee weir.	Remove shoal.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 114)	3+00	NA
116	Significant unwanted vegetation and trees on left bank 175' upstream of barrier levee weir.	Remove unwanted vegetation.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 108)	0+00	NA
117	Significant woody vegetation in riprap on right bank from barrier levee weir to 500' upstream of barrier levee weir.	Remove vegetation from riprap.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 107)	0+00	0+00
118	Significant vegetated shoal (S-11) and trees in channel on right bank from 100'-700' downstream of upstream limit weir.	Remove shoaling.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 111)	0+00	NA
120	Significant unwanted vegetation on right bank sideslope from 400' downstream of upstream limit weir to upstream limit weir.	Remove unwanted vegetation.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 112)	0+00	0+00
123	Large tree debris in channel at downstream end of large shoal.	Remove tree debris.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 123)	0+00	NA
124	Large tree debris in channel just downstream of weir	Remove tree debris.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 124)	0+00	NA
125	Minor debris on right bank at upstream limit weir.	Remove debris.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 125)	0+00	NA
126	Signifcant vegetation in riprap on right bank from upstream limit weir to 350' upstream of upstream limit weir.	Remove vegetation from riprap.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 116)	0+00	0+00
127	Significant vegetated shoaling (S-12) on right bank from 50' to 225' upstream of upstream limit weir.	Remove shoaling.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 117)	0+00	0+00
128	Unauthorized Alteration (A-47) - Barbed wire fence and metal gate on right bank at upstream limitr.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 114)	0+00	NA
130	Significant vegetated shoaling (S-13) with trees in center of channel just upstream of upstream limit weir.	Remove shoaling.	U	Flood Damage Reduction Channels	12/31/18 (FY16 - 130)	0+00	NA
131	Unauthorized Alteration (A-4) - Sidewalk encroachment (benches and lightposts are not encroachments) along left bank from Bolivar road bridge to 1,775 feet upstream of Bolivar Road bridge.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 13)	90+00	76+00
132	Soft vegetation on right bank frpm Island Park to 500 feet upstream of Island Park pedestrian bridge.	Remove soft vegetation.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 132)	29+00	11+00
134	Unauthorized Alteration (A-12) - guy wire for utility pole on left bank at Seneca Street (utility pole not an encroachment)	Submit Section 408 Alteration Request or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 134)	73+00	NA
141	Unauthorized Alteration (A-35) - Concrete siphon gatewell on right bank channel sideslope (across from school). NYSDEC says permitted.	Submit Section 408 Alteration Request to USACE.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 141)	36+00	NA
143	Unauthorized Alteration (A-45) - Wellsville, Addison, & Galeton Railroad railway (from Island Park pedestrian bridge to barrier levee weir) and signs on left bank near boulders blocking trail on channel crest.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 143)	0+00	13+00

Attachment “B” –  
Genesee River – Right Bank and Dyke Creek, Wellsville  
– Summary of Deficiencies and Recommendations

Attachment "B" - Summary of Deficiencies and Recommendations

Genesee River, Wellsville - Right Bank and Dyke Creek (9/23/16)

ID#	Deficiency	Recommendation	Rating	Category	Due Date	Station 1	Station 2
1	Trees on left bank levee landside slope 700' upstream of Drop Structure. (Dyke Creek)	Remove trees.	U	Levee Embankments	12/31/17 (FY15 - 36)	D 35+00	NA
2	Unauthorized Alteration (A-49) - Levee overbuild added on to USACE levee at upstream limit by Soil Conservation Service to levee upstream limit. (Dyke Creek)	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 37)	D 35+00	NA
3	Significant trees and unwanted vegetation on left bank from levee upstream limit to just upstream of the Drop Structure. (Dyke Creek)	Remove trees and unwanted vegetation.	U	Levee Embankments	12/31/17 (FY15 - 39)	D 35+00	35+00
35	Unwanted vegetation on right bank barrier levee waterside slope and within 15' of riverside toe. (Right Bank)	Remove unwanted vegetation.	M	Levee Embankments	12/31/17 (FY15 - 4)	0+00	0+00
36	Unauthorized Alteration (A-57) - Gray brick utility building and sidewalk within 15' of right bank barrier levee landside toe.	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 5)	0+00	NA
37	Unauthorized Alteration (A-59) - Right bank barrier levee removed at east end for access road. (Right Bank)	Resolve unauthorized alteration (repair levee to As-Built conditions) or submit a Section 408 Alteration Request Form.	M	Levee Embankments	12/31/17 (FY15 - 6)	0+00	NA
38	Unauthorized Alteration (A-58) - Road and fence through and across right bank barrier levee. (Right Bank)	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/17 (FY15 - 7)	0+00	NA
47	Unauthorized Alteration (A-56) - Chain link fence along right bank barrier levee within 15 feet of levee landside toe at ball field (approx. 100 feet as measured from road. (Right Bank)	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Levee Embankments	12/31/18 (FY16 - 47)	0+00	0+00
39	24" CMP at east end of right bank barrier levee is 80% obstructed by sediment. (Right Bank)	Clear obstructed outfall.	M	Interior Drainage System	12/31/17 (FY15 - 8)	0+00	NA
4	Log debris in channel on right bank shoal 500' upstream of drop structure. (Dyke Creek)	Remove debris.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 35)	D 35+00	NA
5	Shoaling (S-14) on right bank from 200' upstream of drop structure to upstream project limit. (Dyke Creek)	Remove shoaling.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 34)	D 35+00	35+00
10	Vegetation in riprap on left bank from 300' downstream to 200' upstream of Drop Structure. (Dyke Creek)	Remove vegetation from riprap.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 27)	D 32+00	35+00
11	Unauthorized Alteration (A-50) - Concrete blocks, guardrail, utility pole, guy wire, and dead end sign encroachments on left bank at end of Miller Street just upstream of drop structure. (Dyke Creek)	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 31)	D 35+00	NA
12	Trees and unwanted vegetation in riprap on right bank from Broad Street bridge to Drop Structure. (Dyke Creek)	Remove unwanted vegetation.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 21)	D 35+00	28+00
13	Significant vegetation and trees on right bank upstream of drop structure. (Dyke Creek)	Remove vegetation and trees.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 13)	D 35+00	NA
14	Minor shoal (S-15) in center of channel 100' downstream of drop structure to 200' downstream of drop structure. (Dyke Creek)	Remove shoal.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 26)	D 34+00	NA
17	Shoaling (S-16) on left bank and in center of channel from drop structure to Broadway Street bridge. (Dyke Creek)	Remove shoal.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 20)	D 24+00	33+00
20	Vegetation on left bank upstream of Broad Street bridge. (Dyke Creek)	Remove Vegetation.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 20)	D 24+00	26+00
21	Debris in channel just upstream of Broad Street bridge. (Dyke Creek)	Remove debris.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 22)	D 24+00	NA
22	Significant unwanted vegetation and trees in riprap on both banks between Railroad bridge and Broad Street bridge. (Dyke Creek)	Remove unwanted vegetation.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 19)	D 24+00	22+00
23	Significant trees and heavy unwanted vegetation in riprap on both banks between Main Street bridge and Railroad bridge. (Dyke Creek)	Remove trees and unwanted vegetation.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 17)	D 22+00	18+00
24	Unauthorized Alteration (A-51) - wood stairs on left bank channel slope just downstream of railroad bridge. (Dyke Creek)	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 24)	D 21+00	NA
25	Unauthorized Alteration (A-52) - wood stairs and railing encroachments on left bank channel slope just downstream of railroad bridge. (Dyke Creek)	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 25)	D 21+00	NA
26	Unauthorized alteration (A-53) - wood stairs left bank channel slope. (Dyke Creek)	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 26)	D 20+00	NA
27	Erosion on left bank upstream of Main street. (Dyke Creek)	Repair erosion.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 27)	D 19+00	NA

Attachment "B" - Summary of Deficiencies and Recommendations

Genesee River, Wellsville - Right Bank and Dyke Creek (9/23/16)

28	Debris on upstream face of Main Street bridge abutment. (Dyke Creek)	Remove debris.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 16)	D 18+00	NA
29	Significant trees and vegetation in riprap on both banks just downstream of Main Street bridge. (Dyke Creek)	Remove trees and vegetation from riprap.	U	Flood Damage Reduction Channels	12/31/17 (FY15 - 15)	D 17+00	NA
30	Vegetated shoals (S-17) on concrete sideslopes on both banks and in channel from State Route 417 bridge to Main Street bridge. (Dyke Creek)	Remove vegetation from concrete.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 12)	D 12+00	18+00
31	Tree debris in channel downstream of Main Street bridge. (Dyke Creek)	Remove tree debris.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 31)	D 17+00	NA
33	Unauthorized Alteration(A-55) - Heating, electrical, and plumbing yard on Dyke Creek left bank just upstream of State Route 417 bridge. (Dyke Creek)	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 13)	D 15+00	13+00
43	Vegetated shoaling (S-18) on both banks from convergence of Dyke Creek to the State Route 417 bridge.	Remove shoaling.	M	Flood Damage Reduction Channels	12/31/17 (FY15 - 9)	D 11+00	2+00
45	Significant unwanted vegetation on left bank from Broad Street bridge to Drop Structure. (Dyke Creek)	Remove unwanted vegetation.	U	Flood Damage Reduction Channels	12/31/17 (FY15-24)	D 35+00	24+00
46	Unauthorized Alteration (A-54) - 12 inch metal outfall pipe with riprap apron on left bank channel slope just upstream of Main Street bridge. (Dyke Creek)	Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.	M	Flood Damage Reduction Channels	12/31/18 (FY16 - 46)	D 20+00	NA

Attachment “C” –  
Genesee River - Left Bank and Channel, Wellsville  
Flood Damage Reduction System Inspection Report



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## Flood Damage Reduction Segment / System Inspection Report

Name of Segment / System: Genesee River - Left Bank and Channel, Wellsville

Public Sponsor(s): NYSDEC - Region 9

Public Sponsor Representative: Theodore A. Myers

Sponsor Phone: (716)851-7070

Sponsor Email: theodore.myers@dec.ny.gov

Corps of Engineers Inspector: USACE - Buffalo District

Inspection Start Date: 9/23/2016

Inspection End Date: \_\_\_\_\_

Inspection Report Prepared By: Thomas A. Brown, IE

Date Report Prepared: \_\_\_\_\_

Internal Technical Review (for Periodic Inspections) By: \_\_\_\_\_

Date of ITR: \_\_\_\_\_

Final Approved By: \_\_\_\_\_

Date Approved: \_\_\_\_\_

Type of Inspection:

- ☐ **Initial Eligibility Inspection**  
☒ **Continuing Eligibility Inspection (Routine)**  
☐ **Continuing Eligibility Inspection (Periodic)**

Overall Segment / System Rating:

- ☐ **Acceptable**  
☐ **Minimally Acceptable**  
☒ **Unacceptable**

Contents of Report:

- ☒ **Instructions**  
☐ **Initial Eligibility Inspection**  
☒ **General Items for All Flood Control Works**  
☒ **Levee Embankment**  
☐ **Concrete Floodwalls**  
☐ **Sheet Pile and Concrete I-walls**  
☒ **Interior Drainage System**  
☐ **Pump Stations**  
☒ **FDR System Channels**

Note: In addition to the report contents indicated here, a plan view drawing of the system, with stationing, should be included with this report to reference locations of items rated less than acceptable. Photos of general system condition and any noted deficiencies should also be attached.

Note: This inspection rating represents the Corps evaluation of operations and maintenance of the flood damage reduction system and may be used in conjunction with other information for a levee certification determination for National Flood Insurance Program (NFIP) purposes if applicable. An Acceptable Corps inspection rating, alone, does not equate to a certifiable levee for the NFIP. It is recommended for levee systems currently accredited by the Federal Emergency Management Agency (FEMA) for NFIP purposes receiving a Corps Minimally Acceptable or Unacceptable rating, be evaluated by the levee owner to determine the potential impacts to the certification for FEMA.



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# **Flood Damage Reduction Segment / System 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.

<b>1. Levee segment / system and district: (name of the segment / system and levee district)</b> Genesee River - Left Bank and Channel, Wellsville for CELRB
<b>2. Reporting period: (month/day/year to month/day/year)</b>
<b>3. Summary of maintenance required by last inspection report:</b>
<b>4. Summary of maintenance performed this reporting period:</b>
<b>5. Summary of maintenance planned next reporting period:</b>
<b>6. Summary of changes to segment / system since last inspection:</b>
<b>7. Problems/ issues requiring the assistance of the US Army Corps of Engineers:</b>



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**Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,**

**Pre-Inspection Form  
Page 1 of 2**

Public Sponsor Pre-Inspection Report

The following information is to be provided by the levee district sponsor prior to an inspection

8. Levee district organization: (elected or appointed levee district officials and key employees)

Name	Position	Mailing Address	Phone Number	Email Address



## 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.	RIs are intended to verify proper maintenance, owner preparedness, and component operation.	PIs 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.



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**Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel, Wellsville**

**General Instructions  
Page 2 of 3**

**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.

<b>If the Overall System Rating is Acceptable</b>	<b>If the Overall System Rating is Minimally Acceptable</b>	<b>If the Overall System Rating is Unacceptable</b>
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.



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**Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel, Wellsville**

**General Instructions  
Page 3 of 3**

## General Items for All Flood Damage Reduction Segments / Systems

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	<b>A</b>	<b>A</b>	Levee Owner's Manual, O&M Manuals, and/or manufacturer's operating instructions are present.	N21L_2016_r_0019: Station_1 102+00: Sponsor presented O&M Manual at time of inspection.: NA (A) N21L_2016_r_0021: Station_1 102+00: Sponsor submitted Public Sponsor Pre- Inspection Report.: NA (A)
		<b>M</b>	Sponsor manuals are lost or missing or out of date; however, sponsor will obtain manuals prior to next scheduled inspection.	
		<b>U</b>	Sponsor has not obtained lost or missing manuals identified during previous inspection.	
2. Emergency Supplies and Equipment (A or M only)	<b>A</b>	<b>A</b>	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.	
		<b>M</b>	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)	<b>A</b>	<b>A</b>	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.	N21L_2016_r_0020: Station_1 102+00: Sponsor has an acceptable EPP.: NA (A)
		<b>M</b>	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.	

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

General Items for All Flood Damage Reduction  
Segments / Systems  
Page 1 of 1

# Levee Embankments

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

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Unwanted Vegetation Growth <sup>1</sup>	<b>U</b>	<b>A</b>	The levee 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 levee profile. The levee has been recently mowed. The vegetation-free zone extends 15 feet from both the landside and riverside toes of the levee to the centerline of the tree. If the levee access easement doesn't extend to the described limits, then the vegetation-free zone must be maintained to the easement limits. Reference EM 1110-2-301 or Corps policy for regional vegetation variance.	N21L_2016_r_0044: Station_1 61+00: Station_2 58+00: 9 trees and 1 tree stump within 15' of levee landside toe 1,600' downstream of Madison Street (Stevens Street) bridge (60, 68, and 70 Seneca Street).: Remove trees and tree stump. (M)
		<b>M</b>	Minimal vegetation growth (brush, weeds, or trees 2 inches in diameter or smaller) is present within the zones described above. This vegetation must be removed but does not currently threaten the operation or integrity of the levee.	N21L_2016_r_0053: Station_1 54+00: Station_2 46+00: Trees on left bank landside slope and within 15' of landside toe from 1,200' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.: Remove trees. (M)
		<b>U</b>	Significant vegetation growth (brush, weeds, or any trees greater than 2 inches in diameter) is present within the zones described above and must be removed to reestablish or ascertain levee integrity.	N21L_2016_r_0084: Station_1 33+00: Station_2 24+00: Vegetation and woody growth in left bank riprap from State Street bridge to 950' upstream of State Street bridge. Not much vegetation from Sta. 29+00 to 27+00.: Remove vegetation and woody growth from riprap. (U) N21L_2016_r_0088: Station_1 28+00: Unwanted vegetation and bushes on landside slope and within 15' of landside toe 500' upstream of State Street bridge.: Remove unwanted vegetation. (M) N21L_2016_r_0095: Station_1 21+00: Station_2 24+00: Significant vegetation in left bank riprap from 400' to 700' upstream of steel sheet pile weir.: Remove vegetation from riprap. (U) N21L_2016_r_0121: Station_1 0+00: Station_2 0+00: Significant vegetation in riprap on left bank upstream and downstream of upstream limit weir.: Remove vegetation from riprap. (U)
2. Sod Cover	<b>M</b>	<b>A</b>	There is good coverage of sod over the levee.	N21L_2016_r_0045: Station_1 60+00: Inadequate sod cover at 70 Chamberlain Street on landside slope.: Re-establish sod cover. (M)
		<b>M</b>	Approximately 25% of the sod cover is missing or damaged over a significant portion or over significant portions of the levee embankment. This may be the result of over-grazing or feeding on the levee, unauthorized vehicular traffic, chemical or insect problems, or burning during inappropriate seasons.	
		<b>U</b>	Over 50% of the sod cover is missing or damaged over a significant portion or portions of the levee embankment.	
		<b>N/A</b>	Surface protection is provided by other means.	
3. Encroachments	<b>M</b>	<b>A</b>	No trash, debris, unauthorized farming activity, 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 levee.	N21L_2016_r_0043: Station_1 60+00: Unauthorized Alteration (A-15) - Grey shed, timbers, and debris encroaching on landside slope at 70 Seneca Street on left

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

Levee Embankments  
Page 1 of 29

# Levee Embankments

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

Rated Item	Rating	Rating Guidelines	Location/Remarks/Recommendations
		<p><b>M</b> 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. Encroachments have not been reviewed by the Corps.</p> <p><b>U</b> Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the levee.</p>	<p>bank 1,700' downstream of Madison Street (Stevens Street) bridge.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0046: Station_1 59+00: Unauthorized Alteration (A-17) - Red shed, chain link fence, and wooden debris at 60 Seneca Street on left bank 1,600' downstream of Madison Street (Stevens Street) bridge (60 Seneca Street).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0047: Station_1 59+00: Unauthorized Alteration (A-16) - Tree debris and metal debris on levee landside slope 1,600' downstream of Madison Street (Stevens Street) bridge (68 Seneca Street).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0057: Station_1 52+00: Unauthorized Alteration (U-24) - Utility pole on left bank 850' downstream of Madison Street (Stevens Street) bridge (just downstream of single gateway).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0058: Station_1 52+00: Unauthorized Alteration (U-25) - Guy wire w/in 15' of landside toe on left bank 850' downstream of Madison Street (Stevens Street) bridge(just downstream of single gateway).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0060: Station_1 47+00: Station_2 50+00: Ponding Area fence is part of the project.: NA (A)</p> <p>N21L_2016_r_0074: Station_1 44+00: Unauthorized Alteration (A-29) - Madison Street (Stevens Street) bridge (replaced Pearl Street bridge).: Submit Section 408 Alteration Request Form to USACE. (M)</p> <p>N21L_2016_r_0075: Station_1 38+00: Unauthorized Alteration (A-31) - concrete walkway at Wellsville High School (Manhole and Wellsville High School building are part of project.): Submit Section 408 Alteration Request Form to USACE. (M)</p> <p>N21L_2016_r_0076: Station_1 34+00: Station_2 43+00: Unauthorized Alteration (A-30) - Fence on left bank channel crest from Madison Street (Stevens Street) bridge to State Street bridge.: Submit Section 408 Alteration Request to</p>

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US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

# Levee Embankments

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

Rated Item	Rating	Rating Guidelines	Location/Remarks/Recommendations
			<p>USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0083: Station_1 30+00: Unauthorized Alteration (A-37) - 4 Utility Poles on left bank 250' upstream of State Street bridge.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0089: Station_1 27+00: Unauthorized Alteration (A-38) - Green metal stairs and concrete pad for access to Water Intake Unit in left bank riverside slope upstream of Steel Sheet Pile Weir (Water Intake Unit is part of project as shown on As-Constructed drawing 189-WEL-2/4).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0090: Station_1 27+00: 1974 Steel Sheet Pile Weir by Others - shown on AS-CONSTRUCTED drawing 189-WEL-2/4 (approved by USACE).: NA (A)</p> <p>N21L_2016_r_0093: Station_1 24+00: Station_2 28+00: Unauthorized Alteration (A-41) - Asphalt sidewalk and guy wire at left bank levee landside toe.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0094: Station_1 23+00: Unauthorized Alteration (A-42) - Utility pole on left bank landside slope 475' upstream of Steel Sheet Pile Weir (across from maintenance garage).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0104: Station_1 16+00: Island Park Pedestrian Walkway Bridge is not an encroachment. Bridge support is deteriorating (Former railroad bridge as shown on As-Constructed drawing F-189-A-10/6).: NA (A)</p> <p>N21L_2016_r_0122: Station_1 0+00: Station_2 0+00: Approved Alteration - Drainage swale berm at left bank lagoon between barrier levee weir and upstream limit weir.: NA (A)</p> <p>N21L_2016_r_0129: Station_1 0+00: Unauthorized Alteration (A-48) - USACE levee on left bank at upstream end of project has been removed and replaced by a new levee (constructed by BP &amp; Sinclair Refinery during landfill remediation). NYSDEC says approved.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0135: Station_1 57+00: Unauthorized Alteration (A-18) - white concrete block shed, utility marker,</p>

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

Levee Embankments  
Page 3 of 29

# Levee Embankments

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

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
				<p>and tree house on left bank levee landside slope at 52 and 48 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0136: Station_1 57+00: Station_2 53+00: Unauthorized Alteration (A-19) - Utility line potentially buried in overbuilt levee section.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0137: Station_1 56+00: Unauthorized Alteration (A-20) - Yellow garage on left bank levee landside toe at 44 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0138: Station_1 56+00: Unauthorized Alteration (A-21) - Stone landscaping and tree debris on left bank levee landside slope; pool within 15 feet of landside toe at 48 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0139: Station_1 55+00: Unauthorized Alteration (A-22) - Dilapidated white garage and shed and patio deck at left bank levee landside toe; clothesline and pole on landside slope at 38 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0140: Station_1 55+00: Unauthorized Alteration (U-23) - Chicken wire fence on left bank levee landside toe and rope fence on waterside crest at 20 Chamberlain Street. Note: levee is overbuilt at this location (approx. 42 feet wide).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p>
4. Closure Structures (Stop Log, Earthen Closures, Gates, or Sandbag	NA	A	Closure structure in good repair. Placing equipment, stoplogs, and other materials are readily available at all times. Components are clearly marked and installation instructions/ procedures readily available. Trial erections have been accomplished in accordance with the O&M Manual.	

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-11

Levee Embankments  
Page 4 of 29



# Levee Embankments

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

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
Closures) (A or U only)		U	Any of the following issues is cause for this rating: Closure structure in poor condition. Parts missing or corroded. Placing equipment may not be available within the anticipated warning time. The storage vaults cannot be opened during the time of inspection. Components of closure are not clearly marked and installation instructions/ procedures are not readily available. Trial erections have not been accomplished in accordance with the O&M Manual.	
		N/A	There are no closure structures along this component of the FDR segment / system.	
5. Slope Stability	A	A	No slides, sloughs, tension cracking, slope depressions, or bulges are present.	
		M	Minor slope stability problems that do not pose an immediate threat to the levee embankment.	
		U	Major slope stability problems (ex. deep seated sliding) identified that must be repaired to reestablish the integrity of the levee embankment.	
6. Erosion/ Bank Caving	A	A	No erosion or bank caving is observed on the landward or riverward sides of the levee that might endanger its stability.	
		M	There are areas where minor erosion is occurring or has occurred on or near the levee embankment, but levee integrity is not threatened.	
		U	Erosion or caving is occurring or has occurred that threatens the stability and integrity of the levee. The erosion or caving has progressed into the levee section or into the extended footprint of the levee foundation and has compromised the levee foundation stability.	
7. Settlement <sup>2</sup>	A	A	No observed depressions in crown. Records exist and indicate no unexplained historical changes.	
		M	Minor irregularities that do not threaten integrity of levee. Records are incomplete or inclusive.	
		U	Obvious variations in elevation over significant reaches. No records exist or records indicate that design elevation is compromised.	
8. Depressions/ Rutting	M	A	There are scattered, shallow ruts, pot holes, or other depressions on the levee that are unrelated to levee settlement. The levee crown, embankments, and access road crowns are well established and drain properly without any ponded water.	N21L_2016_r_0038: Station_1 69+00: Chamberland Street drainage channel creates apparent gap in line of protection on left bank levee.: Evaluate the possibility of altering the project to improve a continuous line of protection; potentially include a pipe and flapgate. (M)
		M	There are some infrequent minor depressions less than 6 inches deep in the levee crown, embankment, or access roads that will pond water.	
		U	There are depressions greater than 6 inches deep that will pond water.	
9. Cracking	A	A	Minor longitudinal, transverse, or desiccation cracks with no vertical movement along the crack. No cracks extend continuously through the levee crest.	
		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 levee crest. Longitudinal cracks are no longer than the height of the levee.	

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

Levee Embankments  
Page 5 of 29

# Levee Embankments

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

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
		<b>U</b>	Cracks exceed 6 inches in depth. Longitudinal cracks are longer than the height of the levee and/or exhibit vertical movement along the crack. Transverse cracks extend through the entire levee width.	
10. Animal Control	<b>M</b>	<b>A</b>	Continuous animal burrow control program in place that includes the elimination of active burrowing and the filling in of existing burrows.	N21L_2016_r_0087: Station_1 28+00: Multiple animal burrows (approx. half dozen) on left bank riverside slope 450' upstream of State Street bridge.: Fill animal burrows and improve animal control program. (M)
		<b>M</b>	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.	
		<b>U</b>	Animal burrow control program is not effective or is nonexistent. Significant maintenance is required to fill existing burrows, and the levee will not provide reliable flood protection until this maintenance is complete.	
11. Culverts/ Discharge Pipes <sup>3</sup> (This item includes both concrete and corrugated metal pipes.)	<b>M</b>	<b>A</b>	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.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no discharge pipes/ culverts.	
12. Riprap Revetments &	<b>A</b>	<b>A</b>	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.	

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-13

Levee Embankments  
Page 6 of 29

# Levee Embankments

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

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
Bank Protection		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.	
13. Revetments other than Riprap	<b>NA</b>	<b>A</b>	Existing revetment protection is properly maintained, undamaged, and clearly visible.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no such revetments protecting this feature of the segment / system.	
14. Underseepage Relief Wells/ Toe Drainage Systems	<b>NA</b>	<b>A</b>	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.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no relief wells/ toe drainage systems along this component of the FDR segment / system.	
15. Seepage	<b>A</b>	<b>A</b>	No evidence or history of unrepaired seepage, saturated areas, or boils.	
		<b>M</b>	Evidence or history of minor unrepaired seepage or small saturated areas at or beyond the landside toe but not on the landward slope of levee. No evidence of soil transport.	
		<b>U</b>	Evidence or history of active seepage, extensive saturated areas, or boils.	

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-14

Levee Embankments  
Page 7 of 29

## Levee Embankments

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

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

<sup>2</sup> Detailed survey elevations are normally required during Periodic Inspections, and whenever there are obvious visual settlements.

<sup>3</sup> The decision on whether or not USACE inspectors should enter a pipe to perform a detailed inspection must be made at the USACE District level. This decision should be made in conjunction with the District Safety Office, as pipes may be considered confined spaces. This decision should consider the age of the pipe, the diameter of the pipe, the apparent condition of the pipe, and the length of the pipe. If a pipe is entered for the purposes of inspection, the inspector should record observations with a video camera in order that the condition of the entire pipe, including all joints, can later be assessed. Additionally, the video record provides a baseline to which future inspections can be compared.

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-15

Levee Embankments  
Page 8 of 29

## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0044 <b>Title:</b> USACE_CELRB_N21L_2016_r_0044_1.jpg <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> 9 trees and 1 tree stump within 15' of levee landside toe 1,600' downstream of Madison Street (Stevens Street) bridge (60, 68, and 70 Seneca Street).; <b>Action:</b> Remove trees and tree stump.; Station_1: 61+00; Station_2: 58+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0044 <b>Title:</b> USACE_CELRB_N21L_2016_r_0044_2.jpg <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> 9 trees and 1 tree stump within 15' of levee landside toe 1,600' downstream of Madison Street (Stevens Street) bridge (60, 68, and 70 Seneca Street).; <b>Action:</b> Remove trees and tree stump.; Station_1: 61+00; Station_2: 58+00</p>



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	<p><b>Inspect ID:</b> N21L_2016_r_0044 <b>Title:</b> USACE_CELRB_N21L_2016_r_0044_3.jpg <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> 9 trees and 1 tree stump within 15' of levee landside toe 1,600' downstream of Madison Street (Stevens Street) bridge (60, 68, and 70 Seneca Street).; <b>Action:</b> Remove trees and tree stump.; <b>Station_1:</b> 61+00; <b>Station_2:</b> 58+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0053 <b>Title:</b> USACE_CELRB_N21L_2016_r_0053_1.jpg <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Trees on left bank landside slope and within 15' of landside toe from 1,200' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.; <b>Action:</b> Remove trees.; <b>Station_1:</b> 54+00; <b>Station_2:</b> 46+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-17

Levee Embankments  
Page 10 of 29

## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0084 <b>Title:</b> USACE_CELRB_N21L_2016_r_0084_1.jpg <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Unacceptable; Remarks: Vegetation and woody growth in left bank riprap from State Street bridge to 950' upstream of State Street bridge. Not much vegetation from Sta. 29+00 to 27+00.; Action: Remove vegetation and woody growth from riprap.; Station_1: 33+00; Station_2: 24+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0084 <b>Title:</b> USACE_CELRB_N21L_2016_r_0084_2.jpg <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Unacceptable; Remarks: Vegetation and woody growth in left bank riprap from State Street bridge to 950' upstream of State Street bridge. Not much vegetation from Sta. 29+00 to 27+00.; Action: Remove vegetation and woody growth from riprap.; Station_1: 33+00; Station_2: 24+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-18

Levee Embankments  
Page 11 of 29



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0088 <b>Title:</b> USACE_CELRB_N21L_2016_r_0088_1.jpg <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unwanted vegetation and bushes on landside slope and within 15' of landside toe 500' upstream of State Street bridge.; Action: Remove unwanted vegetation.; Station_1: 28+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0095 <b>Title:</b> USACE_CELRB_N21L_2016_r_0095_1.jpg <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Unacceptable; Remarks: Significant vegetation in left bank riprap from 400' to 700' upstream of steel sheet pile weir.; Action: Remove vegetation from riprap.; Station_1: 21+00; Station_2: 24+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-19

Levee Embankments  
Page 12 of 29



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0121 <b>Title:</b> USACE_CELRB_N21L_2016_r_0121_1.jpg <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Unacceptable; Remarks: Significant vegetation in riprap on left bank upstream and downstream of upstream limit weir.; Action: Remove vegetation from riprap.; Station_1: 0+00; Station_2: 0+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0045 <b>Title:</b> USACE_CELRB_N21L_2016_r_0045_1.jpg <b>Rated Item:</b> 2. Sod Cover <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Inadequate sod cover at 70 Chamberlain Street on iandside slope.; Action: Re-establish sod cover.; Station_1: 60+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-20

Levee Embankments  
Page 13 of 29

## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0043 <b>Title:</b> USACE_CELRB_N21L_2016_r_0043_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-15) - Grey shed, timbers, and debris encroaching on landside slope at 70 Seneca Street on left bank 1,700' downstream of Madison Street (Stevens Street) bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 60+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0043 <b>Title:</b> USACE_CELRB_N21L_2016_r_0043_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-15) - Grey shed, timbers, and debris encroaching on landside slope at 70 Seneca Street on left bank 1,700' downstream of Madison Street (Stevens Street) bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 60+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-21

Levee Embankments  
Page 14 of 29



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0046 <b>Title:</b> USACE_CELRB_N21L_2016_r_0046_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-17) - Red shed, chain link fence, and wooden debris at 60 Seneca Street on left bank 1,600' downstream of Madison Street (Stevens Street) bridge (60 Seneca Street).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 59+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0047 <b>Title:</b> USACE_CELRB_N21L_2016_r_0047_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-16) - Tree debris and metal debris on levee landside slope 1,600' downstream of Madison Street (Stevens Street) bridge (68 Seneca Street).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 59+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-22

Levee Embankments  
Page 15 of 29

## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0057 <b>Title:</b> USACE_CELRB_N21L_2016_r_0057_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (U-24) - Utility pole on left bank 850' downstream of Madison Street (Stevens Street) bridge (just downstream of single gatewell).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. ; Station_1: 52+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0058 <b>Title:</b> USACE_CELRB_N21L_2016_r_0058_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (U-25) - Guy wire w/in 15' of landside toe on left bank 850' downstream of Madison Street (Stevens Street) bridge(just downstream of single gatewell).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 52+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-23

Levee Embankments  
Page 16 of 29



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0060 <b>Title:</b> USACE_CELRB_N21L_2016_r_0060_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Acceptable; Remarks: Ponding Area fence is part of the project.; Action: NA; Station_1: 47+00; Station_2: 50+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0074 <b>Title:</b> USACE_CELRB_N21L_2016_r_0074_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-29) - Madison Street (Stevens Street) bridge (replaced Pearl Street bridge).; Action: Submit Section 408 Alteration Request Form to USACE.; Station_1: 44+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-24

Levee Embankments  
Page 17 of 29

## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0075 <b>Title:</b> USACE_CELRB_N21L_2016_r_0075_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-31) - concrete walkway at Wellsville High School (Manhole and Wellsville High School building are part of project.); Action: Submit Section 408 Alteration Request Form to USACE.; Station_1: 38+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0076 <b>Title:</b> USACE_CELRB_N21L_2016_r_0076_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-30) - Fence on left bank channel crest from Madison Street (Stevens Street) bridge to State Street bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 34+00; Station_2: 43+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-25

Levee Embankments  
Page 18 of 29



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0083 <b>Title:</b> USACE_CELRB_N21L_2016_r_0083_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-37) - 4 Utility Poles on left bank 250' upstream of State Street bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 30+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0089 <b>Title:</b> USACE_CELRB_N21L_2016_r_0089_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-38) - Green metal stairs and concrete pad for access to Water Intake Unit in left bank riverside slope upstream of Steel Sheet Pile Weir (Water Intake Unit is part of project as shown on As-Constructed drawing 189-WEL-2/4).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 27+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-26

Levee Embankments  
Page 19 of 29

## Levee Embankments

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



**Inspect ID:** N21L\_2016\_r\_0090 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0090\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Acceptable; Remarks: 1974 Steel Sheet Pile Weir by Others - shown on AS-CONSTRUCTED drawing 189-WEL-2/4 (approved by USACE).; Action: NA; Station\_1: 27+00



**Inspect ID:** N21L\_2016\_r\_0093 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0093\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-41) - Asphalt sidewalk and guy wire at left bank levee landside toe.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station\_1: 24+00; Station\_2: 28+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-27

Levee Embankments  
Page 20 of 29



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0093 <b>Title:</b> USACE_CELRB_N21L_2016_r_0093_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-41) - Asphalt sidewalk and guy wire at left bank levee landside toe.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 24+00; Station_2: 28+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0094 <b>Title:</b> USACE_CELRB_N21L_2016_r_0094_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-42) - Utility pole on left bank landside slope 475' upstream of Steel Sheet Pile Weir (across from maintenance garage).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 23+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-28

Levee Embankments  
Page 21 of 29

## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0104 <b>Title:</b> USACE_CELRB_N21L_2016_r_0104_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Acceptable; Remarks: Island Park Pedestrian Walkway Bridge is not an encroachment. Bridge support is deteriorating (Former railroad bridge as shown on As-Constructed drawing F-189-A-10/6).; Action: NA; Station_1: 16+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0122 <b>Title:</b> USACE_CELRB_N21L_2016_r_0122_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Acceptable; Remarks: Approved Alteration - Drainage swale berm at left bank lagoon between barrier levee weir and upstream limit weir.; Action: NA; Station_1: 0+00; Station_2: 0+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,



C-29

Levee Embankments  
Page 22 of 29



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0129 <b>Title:</b> USACE_CELRB_N21L_2016_r_0129_1.jpg  <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-48) - USACE levee on left bank at upstream end of project has been removed and replaced by a new levee (constructed by BP &amp; Sinclair Refinery during landfill remediation). NYSDEC says approved.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 0+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0135 <b>Title:</b> USACE_CELRB_N21L_2016_r_0135_1.jpg  <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-18) - white concrete block shed, utility marker, and tree house on left bank levee landside slope at 52 and 48 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 57+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-30

Levee Embankments  
Page 23 of 29

## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0136 <b>Title:</b> USACE_CELRB_N21L_2016_r_0136_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-19) - Utility line potentially buried in overbuilt levee section.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 57+00; Station_2: 53+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0137 <b>Title:</b> USACE_CELRB_N21L_2016_r_0137_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-20) - Yellow garage on left bank levee lanside toe at 44 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 56+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-31

Levee Embankments  
Page 24 of 29



# Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0138 <b>Title:</b> USACE_CELRB_N21L_2016_r_0138_1.jpg  <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-21) - Stone landscaping and tree debris on left bank levee landside slope; pool within 15 feet of landside toe at 48 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 56+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0139 <b>Title:</b> USACE_CELRB_N21L_2016_r_0139_1.jpg  <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-22) - Dilapidated white garage and shed and patio deck at left bank levee landside toe; clothesline and pole on landside slope at 38 Seneca Street. Note: levee is overbuilt at this location (approx. 42 feet wide).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 55+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-32

Levee Embankments  
Page 25 of 29

## Levee Embankments

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



**Inspect ID:** N21L\_2016\_r\_0139 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0139\_2.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks:  
Unauthorized Alteration (A-22) - Dilapidated white garage and shed and patio deck at left  
bank levee landside toe; clothesline and pole on landside slope at 38 Seneca Street. Note:  
levee is overbuilt at this location (approx. 42 feet wide).; Action: Submit Section 408  
Alteration Request to USACE or remove unauthorized alteration.; Station\_1: 55+00



**Inspect ID:** N21L\_2016\_r\_0140 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0140\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks:  
Unauthorized Alteration (U-23) - Chicken wire fence on left bank levee landside toe and  
rope fence on waterside crest at 20 Chamberlain Street. Note: levee is overbuilt at this  
location (approx. 42 feet wide).; Action: Submit Section 408 Alteration Request to  
USACE or remove unauthorized alteration.; Station\_1: 55+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-33

Levee Embankments  
Page 26 of 29



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0140 <b>Title:</b> USACE_CELRB_N21L_2016_r_0140_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (U-23) - Chicken wire fence on left bank levee landside toe and rope fence on waterside crest at 20 Chamberlain Street. Note: levee is overbuilt at this location (approx. 42 feet wide).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 55+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0140 <b>Title:</b> USACE_CELRB_N21L_2016_r_0140_3.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (U-23) - Chicken wire fence on left bank levee landside toe and rope fence on waterside crest at 20 Chamberlain Street. Note: levee is overbuilt at this location (approx. 42 feet wide).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 55+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-34

Levee Embankments  
Page 27 of 29

## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0038 <b>Title:</b> USACE_CELRB_N21L_2016_r_0038_1.jpg <b>Rated Item:</b> 8. Depressions/ Rutting <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Chamberland Street drainage channel creates apparent gap in line of protection on left bank levee.; Action: Evaluate the possibility of altering the project to improve a continuous line of protection; potentially include a pipe and flapgate.; Station_1: 69+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0038 <b>Title:</b> USACE_CELRB_N21L_2016_r_0038_2.jpg <b>Rated Item:</b> 8. Depressions/ Rutting <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Chamberland Street drainage channel creates apparent gap in line of protection on left bank levee.; Action: Evaluate the possibility of altering the project to improve a continuous line of protection; potentially include a pipe and flapgate.; Station_1: 69+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-35

Levee Embankments  
Page 28 of 29



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21L_2016_r_0038 <b>Title:</b> USACE_CELRB_N21L_2016_r_0038_3.jpg <b>Rated Item:</b> 8. Depressions/ Rutting <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Chamberland Street drainage channel creates apparent gap in line of protection on left bank levee.; Action: Evaluate the possibility of altering the project to improve a continuous line of protection; potentially include a pipe and flapgate.; Station_1: 69+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0087 <b>Title:</b> USACE_CELRB_N21L_2016_r_0087_1.jpg <b>Rated Item:</b> 10. Animal Control <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Multiple animal burrows (approx. half dozen) on left bank riverside slope 450' upstream of State Street bridge.; Action: Fill animal burrows and improve animal control program.; Station_1: 28+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-36

Levee Embankments  
Page 29 of 29

# Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Vegetation and Obstructions	<b>M</b>	<b>A</b>	No obstructions, vegetation, debris, or sediment accumulation noted within interior drainage channels or blocking the culverts, inlets, or discharge areas. Concrete joints and weep holes are free of grass and weeds.	N21L_2016_r_0026: Station_1 82+00: Soft unwanted vegetation obstructing outfall on left bank 900' upstream of Bolivar Road bridge.: Remove unwanted vegetation. (M) N21L_2016_r_0029: Station_1 75+00: 30" CMP outfall on left bank 1,600' upstream of Bolivar Road bridge is approx. 20% obstructed by minor sediment.: Remove sediment obstruction. (M) N21L_2016_r_0061: Station_1 50+00: Station_2 47+00: Trees and unwanted vegetation on ponding area fence.: Remove trees and unwanted vegetation. (M) N21L_2016_r_0101: Station_1 23+00: 48" CMP inlet to culvert under Dyke Street access road on left bank obstructed by vegetation 500' upstream of Steel Sheet Pile Weir.: Remove vegetation obstruction. (M)
		<b>M</b>	Obstructions, vegetation, debris, or sediment are minor and have not impaired channel flow capacity or blocked more than 10% of any culvert openings, but should be removed. A limited volume of grass and weeds may be present in concrete channel joints and weep holes.	
		<b>U</b>	Obstructions, vegetation, debris, or sediment have impaired the channel flow capacity or blocked more than 10% of a culvert opening. Sediment and debris removal required to re-establish flow capacity.	
2. Encroachments	<b>A</b>	<b>A</b>	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 interior drainage system.	
		<b>M</b>	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.	
		<b>U</b>	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of this component of the interior drainage system.	
3. Ponding Areas	<b>A</b>	<b>A</b>	No trash, debris, structures, or other obstructions present within the ponding areas. Sediment deposits do not exceed 10% of capacity.	
		<b>M</b>	Trash, debris, excavations, structures, or other obstructions present, or inappropriate activities that will not inhibit operations and maintenance. Sediment deposits do not exceed 30% of capacity.	
		<b>U</b>	Trash, debris, excavations, structures, or other obstructions, or other encroachments or activities noted that will inhibit operations, maintenance, or emergency work. Sediment deposits exceeds 30% of capacity.	
		<b>N/A</b>	There are no ponding areas associated with the interior drainage system.	
4. Fencing and Gates <sup>1</sup>	<b>M</b>	<b>A</b>	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.	N21L_2016_r_0015: Station_1 88+00: Lower supports of headwall railing are dislodged on left bank outfall 300' upstream of Bolivar Road bridge.: Repair headwall railing. (M)
		<b>M</b>	Fencing or gates are damaged or corroded but appear to be maintainable. Locks may be missing or damaged.	
		<b>U</b>	Fencing and gates are damaged or corroded to the point that replacement is required, or potentially dangerous features are not secured.	

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-37

Interior Drainage System  
Page 1 of 15

# Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
		N/A	There are no features noted that require safety fencing.	
5. Concrete Surfaces (Such as gate wells, outfalls, intakes, or culverts)	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.	N21L_2016_r_0065: Station_1 47+00: Large erosion hole under concrete slope @ 36" outfall on right bank repaired on right bank 400' downstream of Madison Street (Stevens Street) bridge.: NA (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 interior drainage system.	
6. Tilting, Sliding or Settlement of Concrete and Sheet Pile Structures <sup>2</sup> (Such as gate wells, outfalls, intakes, or culverts)	A	A	There are no significant areas of tilting, sliding, or settlement that would endanger the integrity of the structure.	
		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 interior drainage system.	
7. Foundation of Concrete Structures <sup>3</sup> (Such as culverts, inlet and discharge structures, or gatewells.)	A	A	No active erosion, scouring, or bank caving that might endanger the structure's stability.	
		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. The rate of erosion is such that the structure is expected to remain stable until the next inspection.	
		U	Erosion or bank caving observed that may lead to structural instabilities before the next inspection.	
		N/A	There are no concrete items in the interior drainage system.	
8. Monolith Joints	NA	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.	

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US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-38

Interior Drainage System  
Page 2 of 15

# Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
9. Culverts/ Discharge Pipes <sup>4</sup>	<b>M</b>	<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no monolith joints in the interior drainage system.	
		<b>A</b>	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.	
	<b>M</b>	<b>M</b>	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.	<p>N21L_2016_r_0054: Station_1 53+00: 24" RCP on left bank 900' downstream of Madison Street (Stevens Street) bridge (rated M in NYSDEC 19DEC13 pipe inspection): Repair pipe to acceptable condition. (M)</p> <p>N21L_2016_r_0063: Station_1 50+00: Two 36" outfalls with flap gates.: NA (A)</p> <p>N21L_2016_r_0070: Station_1 43+00: Outfall on right bank in acceptable condition.: NA (A)</p> <p>N21L_2016_r_0071: Station_1 44+00: 12" CMP repaired on right bank 250' downstream of Madison Street (Stevens Street) bridge.: NA (A)</p> <p>N21L_2016_r_0096: Station_1 23+00: 36" CMP on left bank 475' upstream of Steel Sheet Pile Weir (rated A in NYSDEC 19DEC13 pipe inspection): Maintain pipe and videotape inspect by 19DEC18. (A)</p> <p>N21L_2016_r_0097: Station_1 23+00: 48" CMP outlet on left bank riverside slope 515' upstream of Steel Sheet Pile Weir (rated A in NYSDEC 19DEC13 pipe inspection): Maintain pipe and videotape inspect by 19DEC18. (A)</p> <p>N21L_2016_r_0100: Station_1 23+00: 48" CMP on left bank landside slope 515' upstream of Steel Sheet Pile Weir (rated A in NYSDEC 19DEC13 pipe inspection). Pipet does not have a trash rack to prevent obstructions from entering the pipe.: Maintain pipe and videotape inspect by 19DEC18. Recommend installing trash rack over opening to keep out debris and unauthorized access. (A)</p> <p>N21L_2016_r_0107: Station_1 13+00: 42" CMP outfall on left bank 325' upstream of Island Park Pedestrian Walkway Bridge (rated A in NYSDEC 19DEC13 pipe inspection): Maintain pipe and videotape inspect by 19DEC18. (A)</p> <p>N21L_2016_r_0113: Station_1 5+00: 36 inch CMP outfall on left bank just upstream of Wellsville, Addison, &amp; Galetton Railroad railway rocks obstructing access.: NA (A)</p>
		<b>U</b>	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.	
		<b>N/A</b>	There are no discharge pipes/ culverts.	
		<b>A</b>	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.	

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

Interior Drainage System  
Page 3 of 15



## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
10. Sluice / Slide Gates <sup>5</sup>	<b>A</b>	<b>A</b>	Gates open and close freely to a tight seal or minor leakage. Gate operators are in good working condition and are properly maintained. Sill is free of sediment and other obstructions. Gates and lifters have been maintained and are free of corrosion. Documentation provided during the inspection.	N21L_2016_r_0052: Station_1 53+00: Sluice gate on left bank 1,000' downstream of Madison Street (Stevens Street) bridge appears to be in acceptable condition, not operated at the time of the FY15 Inspection.: NA (A) N21L_2016_r_0059: Station_1 49+00: Sluice gate on left bank 550' downstream of Madison Street (Stevens Street) bridge in good condition.: NA (A)
		<b>M</b>	Gates and/or operators have been damaged or have minor corrosion, and open and close with resistance or binding. Leakage quantity is controllable, but maintenance is required. Sill is free of sediment and other obstructions.	
		<b>U</b>	Gates do not open or close and/or operators do not function. Gate, stem, lifter and/or guides may be damaged or have major corrosion.	
		<b>N/A</b>	There are no sluice/ slide gates.	
11. Flap Gates/ Flap Valves/ Pinch Valves <sup>1</sup>	<b>A</b>	<b>A</b>	Gates/ valves open and close easily with minimal leakage, have no corrosion damage, and have been exercised and lubricated as required.	N21L_2016_r_0024: Station_1 82+00: 42" flap gate on left bank 900' upstream of Bolivar Road bridge exercised.: NA (A)
		<b>M</b>	Gates/ valves will not fully open or close because of obstructions that can be easily removed, or have minor corrosion damage that requires maintenance.	
		<b>U</b>	Gates/ valves are missing, have been damaged, or have deteriorated to the point that they need to be replaced.	
		<b>N/A</b>	There are no flap gates.	
12. Trash Racks (non-mechanical)	<b>NA</b>	<b>A</b>	Trash racks are fastened in place and properly maintained.	
		<b>M</b>	Trash racks are in place but are unfastened or have bent bars that allow debris to enter into the pipe or pump station, bars are corroded to the point that up to 10% of the sectional area may be lost. Repair or replacement is required.	
		<b>U</b>	Trash racks are missing or damaged to the extent that they are no longer functional and must be replaced. (For example, more than 10% of the sectional area may be lost.)	
		<b>N/A</b>	There are no trash racks, or they are covered in the pump stations section of the report.	
13. Other Metallic Items	<b>NA</b>	<b>A</b>	All metal parts are protected from corrosion damage and show no rust, damage, or deterioration that would cause a safety concern.	
		<b>M</b>	Corrosion seen on metallic parts appears to be maintainable.	
		<b>U</b>	Metallic parts are severely corroded and require replacement to prevent failure, equipment damage, or safety issues.	
		<b>N/A</b>	There are no other significant metallic items.	
14. Riprap Revetments of	<b>A</b>	<b>A</b>	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.	N21L_2016_r_0064: Station_1 48+00: Rusted 12" CMP and eroded concrete repaired with HDPE pipe on right bank 475'

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-40

Interior Drainage System  
Page 4 of 15

# Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
Inlet/ Discharge Areas		<b>M</b>	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.	downstream of Madison Street (Stevens Street) bridge.: NA (A)
		<b>U</b>	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.	
		<b>N/A</b>	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.	
15. Revetments other than Riprap	<b>NA</b>	<b>A</b>	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.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no such revetments protecting this feature of the segment / system.	

<sup>1</sup> Proper operation of this item must be demonstrated during the inspection.

<sup>2</sup> The sponsor should be monitoring any observed movement to verify whether the movement is active or inactive.

<sup>3</sup> Inspectors must have as-built drawings available during the inspection so that the lateral distance to the heel and toe of the floodwalls can be determined in the field.

<sup>4</sup> The decision on whether or not USACE inspectors should enter a pipe to perform a detailed inspection must be made at the USACE District level. This decision should be made in conjunction with the District Safety Office, as pipes may be considered confined spaces. This decision should consider the age of the pipe, the diameter of the pipe, the apparent condition of the pipe, and the length of the pipe. If a pipe is entered for the purposes of inspection, the inspector should record observations with a video camera in order that the condition of the entire pipe, including all joints, can later be assessed. Additionally, the video record provides a baseline to which future inspections can be compared.

<sup>5</sup> Proper operation of the gates (full open and closed) must be demonstrated during the inspection if no documentation is available. Be aware of both manual and electrical operators.

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

Interior Drainage System  
Page 5 of 15

## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

	<p><b>Inspect ID:</b> N21L_2016_r_0026 <b>Title:</b> USACE_CELRB_N21L_2016_r_0026_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Soft unwanted vegetation obstructing outfall on left bank 900' upstream of Bolivar Road bridge.; <b>Action:</b> Remove unwanted vegetation.; <b>Station_1:</b> 82+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0029 <b>Title:</b> USACE_CELRB_N21L_2016_r_0029_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> 30" CMP outfall on left bank 1,600' upstream of Bolivar Road bridge is approx. 20% obstructed by minor sediment.; <b>Action:</b> Remove sediment obstruction.; <b>Station_1:</b> 75+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-42

Interior Drainage System  
Page 6 of 15



## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

	<p><b>Inspect ID:</b> N21L_2016_r_0061 <b>Title:</b> USACE_CELRB_N21L_2016_r_0061_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Trees and unwanted vegetation on ponding area fence.; <b>Action:</b> Remove trees and unwanted vegetation.; <b>Station_1:</b> 50+00; <b>Station_2:</b> 47+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0101 <b>Title:</b> USACE_CELRB_N21L_2016_r_0101_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> 48" CMP inlet to culvert under Dyke Street access road on left bank obstructed by vegetation 500' upstream of Steel Sheet Pile Weir.; <b>Action:</b> Remove vegetation obstruction.; <b>Station_1:</b> 23+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-43

Interior Drainage System  
Page 7 of 15



## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems



**Inspect ID:** N21L\_2016\_r\_0015 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0015\_1.jpg  
**Rated Item:** 4. Fencing and Gates **Caption:** Rating: Minimally Acceptable; Remarks: Lower supports of headwall railing are dislodged on left bank outfall 300' upstream of Bolivar Road bridge.; Action: Repair headwall railing.; Station\_1: 88+00



**Inspect ID:** N21L\_2016\_r\_0065 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0065\_1.jpg  
**Rated Item:** 5. Concrete Surfaces (Such as gate wells, outfalls, intakes, or culverts)  
**Caption:** Rating: Acceptable; Remarks: Large erosion hole under concrete slope @ 36" outfall on right bank repaired on right bank 400' downstream of Madison Street (Stevens Street) bridge.; Action: NA; Station\_1: 47+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-44

Interior Drainage System  
Page 8 of 15

## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems



**Inspect ID:** N21L\_2016\_r\_0054 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0054\_1.jpg  
**Rated Item:** 9. Culverts/ Discharge Pipes **Caption:** Rating: Minimally Acceptable;  
Remarks: 24" RCP on left bank 900' downstream of Madison Street (Stevens Street)  
bridge (rated M in NYSDEC 19DEC13 pipe inspection).; Action: Repair pipe to  
acceptable condition.; Station\_1: 53+00



**Inspect ID:** N21L\_2016\_r\_0063 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0063\_1.jpg  
**Rated Item:** 9. Culverts/ Discharge Pipes **Caption:** Rating: Acceptable; Remarks: Two  
36" outfalls with flap gates.; Action: NA; Station\_1: 50+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-45

Interior Drainage System  
Page 9 of 15



## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems



**Inspect ID:** N21L\_2016\_r\_0070 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0070\_1.jpg  
**Rated Item:** 9. Culverts/ Discharge Pipes **Caption:** Rating: Acceptable; Remarks: Outfall on right bank in acceptable condition.; Action: NA; Station\_1: 43+00



**Inspect ID:** N21L\_2016\_r\_0071 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0071\_1.jpg  
**Rated Item:** 9. Culverts/ Discharge Pipes **Caption:** Rating: Acceptable; Remarks: 12" CMP repaired on right bank 250' downstream of Madison Street (Stevens Street) bridge.; Action: NA; Station\_1: 44+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-46

Interior Drainage System  
Page 10 of 15

## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems



**Inspect ID:** N21L\_2016\_r\_0096 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0096\_1.jpg  
**Rated Item:** 9. Culverts/ Discharge Pipes **Caption:** Rating: Acceptable; Remarks: 36" CMP on left bank 475' upstream of Steel Sheet Pile Weir (rated A in NYSDEC 19DEC13 pipe inspection).; Action: Maintain pipe and videotape inspect by 19DEC18.; Station\_1: 23+00



**Inspect ID:** N21L\_2016\_r\_0097 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0097\_1.jpg  
**Rated Item:** 9. Culverts/ Discharge Pipes **Caption:** Rating: Acceptable; Remarks: 48" CMP outlet on left bank riverside slope 515' upstream of Steel Sheet Pile Weir (rated A in NYSDEC 19DEC13 pipe inspection).; Action: Maintain pipe and videotape inspect by 19DEC18.; Station\_1: 23+00



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-47

Interior Drainage System  
Page 11 of 15



## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems



**Inspect ID:** N21L\_2016\_r\_0100 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0100\_1.jpg  
**Rated Item:** 9. Culverts/ Discharge Pipes **Caption:** Rating: Acceptable; Remarks: 48"  
CMP on left bank landside slope 515' upstream of Steel Sheet Pile Weir (rated A in  
NYSDEC 19DEC13 pipe inspection). Pipet does not have a trash rack to prevent  
obstructions from entering the pipe. ; Action: Maintain pipe and videotape inspect by  
19DEC18. Recommend installing trash rack over opening to keep out debris and  
unauthorized access. ; Station\_1: 23+00



**Inspect ID:** N21L\_2016\_r\_0107 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0107\_1.jpg  
**Rated Item:** 9. Culverts/ Discharge Pipes **Caption:** Rating: Acceptable; Remarks: 42"  
CMP outfall on left bank 325' upstream of Island Park Pedestrian Walkway Bridge (rated  
A in NYSDCE 19DEC13 pipe inspection).; Action: Maintain pipe and videotape inspect  
by 19DEC18.; Station\_1: 13+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-48

Interior Drainage System  
Page 12 of 15

## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems



**Inspect ID:** N21L\_2016\_r\_0113 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0113\_1.jpg  
**Rated Item:** 9. Culverts/ Discharge Pipes **Caption:** Rating: Acceptable; Remarks: 36 inch CMP outfall on left bank just upstream of Wellsville, Addison, & Galetton Railroad railway rocks obstructing access.; Action: NA; Station\_1: 5+00



**Inspect ID:** N21L\_2016\_r\_0052 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0052\_1.jpg  
**Rated Item:** 10. Sluice/ Slide Gates **Caption:** Rating: Acceptable; Remarks: Sluice gate on left bank 1,000' downstream of Madison Street (Stevens Street) bridge appears to be in acceptable condition, not operated at the time of the FY15 Inspection.; Action: NA; Station\_1: 53+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-49

Interior Drainage System  
Page 13 of 15



## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems



**Inspect ID:** N21L\_2016\_r\_0052 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0052\_2.jpg  
**Rated Item:** 10. Sluice/ Slide Gates **Caption:** Rating: Acceptable; Remarks: Sluice gate on left bank 1,000' downstream of Madison Street (Stevens Street) bridge appears to be in acceptable condition, not operated at the time of the FY15 Inspection.; Action: NA; Station\_1: 53+00



**Inspect ID:** N21L\_2016\_r\_0059 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0059\_1.jpg  
**Rated Item:** 10. Sluice/ Slide Gates **Caption:** Rating: Acceptable; Remarks: Sluice gate on left bank 550' downstream of Madison Street (Stevens Street) bridge in good condition.; Action: NA; Station\_1: 49+00



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-50

Interior Drainage System  
Page 14 of 15

## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems



**Inspect ID:** N21L\_2016\_r\_0024 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0024\_1.jpg  
**Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Rating: Acceptable;  
Remarks: 42" flap gate on left bank 900' upstream of Bolivar Road bridge exercised.;  
Action: NA; Station\_1: 82+00



**Inspect ID:** N21L\_2016\_r\_0064 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0064\_1.jpg  
**Rated Item:** 14. Riprap Revetments of Inlet/ Discharge Areas **Caption:** Rating:  
Acceptable; Remarks: Rusty 12" CMP and eroded concrete repaired with HDPE pipe on  
right bank 475' downstream of Madison Street (Stevens Street) bridge.; Action: NA;  
Station\_1: 48+00



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-51

Interior Drainage System  
Page 15 of 15

# Flood Damage Reduction Channels

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	<b>U</b>	<b>A</b>	No obstructions, vegetation, debris, or sediment accumulation within the channel. Concrete channel joints and weep holes are free of grass and weeds.	N21L_2016_r_0007: Station_1 100+00: Trees on right bank channel sideslope 900 feet downstream of Bolivar Street bridge.: Remove trees. (M)
		<b>M</b>	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.	N21L_2016_r_0013: Station_1 91+00: Unwanted heavy woody vegetation on both banks around Bolivar Road bridge.: Remove vegetation. (M)
		<b>U</b>	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.	N21L_2016_r_0014: Station_1 91+00: Vegetation in riprap on right bank around Bolivar Road bridge.: Remove vegetation from riprap. (M) N21L_2016_r_0018: Station_1 85+00: Unauthorized Alteration (A-5) - Riverwalk kiosk on left bank channel crest.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M) N21L_2016_r_0023: Station_1 84+00: Station_2 44+00: Unwanted vegetation on both bank sideslopes from 750' upstream of Bolivar Road bridge to Madison Street bridge.: Remove unwanted vegetation. (M) N21L_2016_r_0035: Station_1 66+00: Vegetation in riprap on both banks around Drop Structure: Remove vegetation in riprap. (M) N21L_2016_r_0039: Station_1 66+00: Tree debris in channel just downstream of Drop Structure.: Remove tree debris. (M) N21L_2016_r_0041: Station_1 65+00: Station_2 52+00: Vegetation in riprap on left bank 2,200' to 900' downstream of Madison Street (Stevens Street) bridge.: Remove vegetation from riprap. (U) N21L_2016_r_0069: Station_1 46+00: Station_2 44+00: Trees on left bank channel crest from 250' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.: Remove trees. (M) N21L_2016_r_0080: Station_1 37+00: Significant unwanted vegetation and trees on left bank 400' downstream of State Street bridge.: Remove unwanted vegetation and trees. (U) N21L_2016_r_0112: Station_1 4+00: Station_2 0+00: Significant vegetation in riprap on right bank from 400' downstream of upstream limit weir to barrier levee weir.: Remove vegetation from riprap. (U) N21L_2016_r_0115: Station_1 0+00: Weir structure at barrier levee ("barrier levee weir") at upstream end of project, clear of debris: NA (A) N21L_2016_r_0116: Station_1 0+00: Significant unwanted vegetation and trees on left bank 175' upstream of barrier

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



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

Flood Damage Reduction Channels  
Page 1 of 59



# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
				levee weir.: Remove unwanted vegetation. (U) N21L_2016_r_0117: Station_1 0+00: Station_2 0+00: Significant woody vegetation in riprap on right bank from barrier levee weir to 500' upstream of barrier levee weir.: Remove vegetation from riprap. (U) N21L_2016_r_0120: Station_1 0+00: Station_2 0+00: Significant unwanted vegetation on right bank sideslope from 400' downstream of upstream limit weir to upstream limit weir.: Remove unwanted vegetation. (U) N21L_2016_r_0123: Station_1 0+00: Large tree debris in channel at downstream end of large shoal.: Remove tree debris. (M) N21L_2016_r_0124: Station_1 0+00: Large tree debris in channel just downstream of weir: Remove tree debris. (M) N21L_2016_r_0126: Station_1 0+00: Station_2 0+00: Significant vegetation in riprap on right bank from upstream limit weir to 350' upstream of upstream limit weir.: Remove vegetation from riprap. (U) N21L_2016_r_0132: Station_1 29+00: Station_2 11+00: Soft vegetation on right bank from Island Park to 500 feet upstream of Island Park pedestrian bridge.: Remove soft vegetation. (M)
2. Shoaling <sup>1</sup> (sediment deposition)	U	A	No shoaling or minor, non-vegetated shoaling is present.	N21L_2016_r_0002: Station_1 111+00: Station_2 106+00: Grassy shoal (S-1) along right bank from 225' to 700' downstream of golf course pedestrian bridge.: Remove shoaling. (M)
		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.	N21L_2016_r_0005: Station_1 103+00: Station_2 92+00: Four alternating vegetated shoals (S-2, S-3, S-4, S-5) on both banks from green golf course pedestrian bridge to Bolivar Road bridge.: Remove shoals. (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.	N21L_2016_r_0022: Station_1 83+00: Station_2 78+00: Shoaling (S-6) along right bank from 750' to 1,300' upstream of Bolivar Road bridge (near K-mart Plaza):. Remove shoaling. (M) N21L_2016_r_0048: Station_1 60+00: Station_2 56+00: Shoal (S-7) on left bank toe, not part of as-built project (189-WEL-2/5):. Remove Shoal. (M) N21L_2016_r_0073: Station_1 49+00: Station_2 0+00: Minor shoaling (S-8) on left bank from 600' downstream of Madison Street (Stevens Street) bridge to State Street bridge.: Remove shoaling. (M) N21L_2016_r_0102: Station_1 17+00: Station_2 21+00:

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

Flood Damage Reduction Channels  
Page 2 of 59



# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
				Shoaling (S-9) along left bank toe from 450' downstream of Island Park pedestrian walkway bridge to Island Park Pedestrian Walkway Bridge.: Remove shoaling. (M) N21L_2016_r_0114: Station_1 3+00: Minor shoal (S-10) downstream of barrier levee weir.: Remove shoal. (M) N21L_2016_r_0118: Station_1 0+00: Significant vegetated shoal (S-11) and trees in channel on right bank from 100'-700' downstream of upstream limit weir.: Remove shoaling. (U) N21L_2016_r_0127: Station_1 0+00: Station_2 0+00: Significant vegetated shoaling (S-12) on right bank from 50' to 225' upstream of upstream limit weir.: Remove shoaling. (U) N21L_2016_r_0130: Station_1 0+00: Significant vegetated shoaling (S-13) with trees in center of channel just upstream of upstream limit weir.: Remove shoaling. (U)
3. Encroachments	U	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.	N21L_2016_r_0003: Station_1 104+00: Unauthorized Alteration (A-1) - Pump station, intake pipe to pump station, and feeder pipes for golf course water.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (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.	N21L_2016_r_0004: Station_1 104+00: Unauthorized Alteration (A-2) - Green golf course pedestrian bridge 1,250' downstream of Boliver Road bridge. NYSDEC says permitted (need to verify):. Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)
		U	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the channel.	N21L_2016_r_0009: Station_1 100+00: Station_2 93+00: Unauthorized Alteration (A-3) - Riprap on right bank toe from 300' upstream of pedestrian bridge to 300 feet downstream of Bolivar Street bridge.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M) N21L_2016_r_0010: Station_1 92+00: Pending Alteration - proposed recreational trail on right bank under bridge connecting Riverwalk trail to Bolivar Road. Currently processing Section 408 paperwork (as of 1/4/17): NA (A) N21L_2016_r_0016: Station_1 88+00: Unauthorized Alteration (A-6) - 42" Outfall on left bank 300' upstream of Bolivar Road bridge (at Top's Plaza):. Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M) N21L_2016_r_0025: Station_1 82+00: Unauthorized

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-54

Flood Damage Reduction Channels  
Page 3 of 59

# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines	Location/Remarks/Recommendations
			<p>Alteration (A-7) - 42" outfall on left bank 900' upstream of Bolivar Road bridge at K-Mart.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0027: Station_1 77+00: Unauthorized Alteration (A-8) - pet sign and post encroachment on left bank channel crest.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0030: Station_1 75+00: Unauthorized Alteration (A-10) - Asphalt access drive and gate on left bank 1,600' upstream of Bolivar Road bridge.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0031: Station_1 75+00: Unauthorized Alteration (A-9) - 30" CMP outfall on left bank 1,600' upstream of Bolivar Road bridge (just downstream of gravel access drive).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0032: Station_1 74+00: Unauthorized Alteration (A-11) - utility pole and 2 guy wires 1,700' upstream of Bolivar Road bridge (just upstream of asphalt drive).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0033: Station_1 72+00: Station_2 69+00: Unauthorized Alteration (A-13) - Misc. landscaping encroachments (timbers and wooden planter) 1,900' to 2,200' upstream of Bolivar Road bridge (92 Seneca Street).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0037: Station_1 69+00: Vegetation obstructions in Chamberlain Street drainage channel to river.: Remove vegetation obstructions. (M)</p> <p>N21L_2016_r_0040: Station_1 65+00: Unauthorized Alteration - Gage house on left bank 2,230' downstream of Madison Street (Stevens Street) bridge is in acceptable condition (NYSDEC says part of project, need to verify).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0066: Station_1 46+00: Unauthorized Alteration (A-26) - Pearl Street bridge removed.: Submit Section 408 Alteration Request to USACE. (M)</p> <p>N21L_2016_r_0067: Station_1 46+00: Unauthorized Alteration (A-27) - Pipe Line bridge just upstream of Pearl</p>

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-55

Flood Damage Reduction Channels  
Page 4 of 59

# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines	Location/Remarks/Recommendations
			<p>Street bridge removed.: Submit Section 408 Alteration Request to USACE. (M)</p> <p>N21L_2016_r_0068: Station_1 46+00: Station_2 44+00: Unauthorized Alteration (A-28) - Fence on left bank channel crest from 250' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0077: Station_1 38+00: Unauthorized Alteration (A-32) - Fence (covered in unwanted vegetation) 300' downstream of State Street bridge .: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0079: Station_1 37+00: Unauthorized Alteration (A-33) - Wellsville High School rail, parking lot, and 2 signs on left bank levee downstream of State Street bridge.: Submit Section 408 Alteration Request Form to USACE. (M)</p> <p>N21L_2016_r_0081: Station_1 34+00: Unauthorized Alteration (A-36) - 18" HDPE outfall and duck bill valve on left bank side slope just downstream of State Street bridge owned by NYSDOT. (NYSDEC says permitted): Submit Section 408 Alteration Request to USACE (M)</p> <p>N21L_2016_r_0082: Station_1 35+00: Unauthorized Alteration (A-34) - 2 utility poles 6 guy wires 75' downstream of State Street bridge (NYSDEC says permitted).: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0091: Station_1 25+00: Unauthorized Alteration (A-39) - Fishing access platform and fence on right bank 200' upstream of Steel Sheet Pile Weir.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0092: Station_1 26+00: Unauthorized Alteration (A-40) - Unidentified drainage structure on channel side slope on left bank.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0098: Station_1 22+00: Unauthorized Alteration (A-43) - Parking lot and wooden post barrier on right bank in Island Park 500' upstream of Steel Sheet Pile Weir. Posts and wire rope restrict access.: Submit Section 408 Alteration Request to USACE or remove unauthorized</p>

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-56

Flood Damage Reduction Channels  
Page 5 of 59

# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
				<p>alteration. (M)</p> <p>N21L_2016_r_0099: Station_1 21+00: Station_2 17+00: Unauthorized Alteration (A-44) - Riprap added on right bank toe.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0110: Station_1 6+00: Unauthorized Alteration (A-46) - Wellsville, Addison, &amp; Galetton Railroad railway rocks obstructing access 575' downstream of barrier levee weir.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (U)</p> <p>N21L_2016_r_0125: Station_1 0+00: Minor debris on right bank at upstream limit weir.: Remove debris. (M)</p> <p>N21L_2016_r_0128: Station_1 0+00: Unauthorized Alteration (A-47) - Barbed wire fence and metal gate on right bank at upstream limit.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0131: Station_1 90+00: Station_2 76+00: Unauthorized Alteration (A-4) - Sidewalk encroachment (benches and lightposts are not encroachments) along left bank from Bolivar road bridge to 1,775 feet upstream of Bolivar Road bridge.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0134: Station_1 73+00: Unauthorized Alteration (A-12) - guy wire for utility pole on left bank at Seneca Street (utility pole not an encroachment): Submit Section 408 Alteration Request or remove unauthorized alteration. (M)</p> <p>N21L_2016_r_0141: Station_1 36+00: Unauthorized Alteration (A-35) - Concrete siphon gatewell on right bank channel sideslope (across from school). NYSDEC says permitted.: Submit Section 408 Alteration Request to USACE. (M)</p> <p>N21L_2016_r_0143: Station_1 0+00: Station_2 13+00: Unauthorized Alteration (A-45) - Wellsville, Addison, &amp; Galetton Railroad railway (from Island Park pedestrian bridge to barrier levee weir) and signs on left bank near boulders blocking trail on channel crest.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)</p>
4. Erosion	<b>M</b>	<b>A</b>	No head cutting or horizontal deviation observed.	N21L_2016_r_0008: Station_1 100+00: Erosion at 2 outfalls

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-57

Flood Damage Reduction Channels  
Page 6 of 59



# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
5. Concrete Surfaces	<b>A</b>	<b>M</b>	Head cutting and horizontal deviation evident, but is less than 1 foot from the designed grade or cross section.	(36" and 24" diameter) on LB upstream of pedestrian bridge. Pipe extension required.: Repair erosion and modify pipe. (M) N21L_2016_r_0109: Station_1 13+00: Erosion and animal burrow on left bank.: Repair erosion and animal burrow. (M)
		<b>U</b>	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.	
		<b>A</b>	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.	
		<b>M</b>	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.	
6. Tilting, Sliding or Settlement of Concrete Structures <sup>2</sup>	<b>A</b>	<b>U</b>	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.	
		<b>N/A</b>	There are no concrete items in the channel.	
		<b>A</b>	There are no significant areas of tilting, sliding, or settlement that would endanger the integrity of the structure.	
		<b>M</b>	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.	
7. Foundation of Concrete Structures <sup>3</sup>	<b>A</b>	<b>U</b>	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.	
		<b>N/A</b>	There are no concrete items in the channel.	
		<b>A</b>	No active erosion, scouring, or bank caving that might endanger the structure's stability.	
		<b>M</b>	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.	

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-58

Flood Damage Reduction Channels  
Page 7 of 59

# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
		<b>U</b>	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.	
		<b>N/A</b>	There are no concrete items in the channel.	
8. Slab and Monolith Joints	<b>A</b>	<b>A</b>	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.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no concrete items in the channel.	
9. Flap Gates/ Flap Valves/ Pinch Valves <sup>4</sup>	<b>A</b>	<b>A</b>	Gates/ valves open and close easily with minimal leakage, have no corrosion damage, and have been exercised and lubricated as required.	
		<b>M</b>	Gates/ valves will not fully open or close because of obstructions that can be easily removed, or have minor corrosion damage that requires maintenance.	
		<b>U</b>	Gates/ valves are missing, have been damaged, or have deteriorated to the point that they need to be replaced.	
		<b>N/A</b>	There are no flap gates.	
10. Riprap Revetments & Banks	<b>U</b>	<b>A</b>	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.	N21L_2016_r_0012: Station_1 91+00: Riprap missing or covered on left bank underneath Bolivar Road bridge.: Replace or uncover missing riprap. (U) N21L_2016_r_0034: Station_1 72+00: Station_2 66+00: Vegetation in left bank riprap from 1,900' to 2,500' upstream of Bolivar Road bridge.: Remove vegetation from riprap. (U) N21L_2016_r_0042: Station_1 44+00: Station_2 64+00: Significant woody unwanted vegetation on left bank channel sideslopes from 2,200' downstream of the Madison Street (Stevens Street) bridge to the Madison Street bridge.: Remove unwanted vegetation. (U) N21L_2016_r_0050: Station_1 59+00: Station_2 56+00: Vegetation in riprap on right bank from 1,600' to 1,300' downstream of Madison Street (Stevens Street) bridge.: Remove unwanted vegetation. (U)
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.	

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-59

Flood Damage Reduction Channels  
Page 8 of 59

# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
				Remove vegetation from riprap. (M)
11. Revetments other than Riprap	<b>A</b>	<b>A</b>	Existing revetment protection is properly maintained, undamaged, and clearly visible.	N21L_2016_r_0055: Station_1 52+00: 15' x 3' concrete spalling repaired on right bank 975' downstream of Madison Street (Stevens Street) bridge.: NA (A)
		<b>M</b>	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.	N21L_2016_r_0056: Station_1 52+00: Station_2 43+00: Minor unwanted vegetation removed from joints of right bank concrete channel surface from 900' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.: Remove unwanted vegetation. (A)
		<b>U</b>	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.	N21L_2016_r_0062: Station_1 45+00: Cracking in concrete sideslope repaired on right bank 250' downstream of Madison Street (Stevens Street) bridge.: NA (A)
		<b>N/A</b>	There are no such revetments protecting this feature of the segment / system.	

<sup>1</sup> If weather and flow conditions allow, inspectors should walk in the channel and probe shoal areas in order to estimate extent of blockage of the cross-sectional area where shoaling is present.

<sup>2</sup> The sponsor should be monitoring any observed movement to verify whether the movement is active or inactive.

<sup>3</sup> Inspectors must have as-built drawings available during the inspection so that the lateral distance to the heel and toe of the floodwalls can be determined in the field.

<sup>4</sup> Proper operation of this item must be demonstrated during the inspection.

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  
Genesee River - Left Bank and Channel,

C-60

Flood Damage Reduction Channels  
Page 9 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0007 <b>Title:</b> USACE_CELRB_N21L_2016_r_0007_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Trees on right bank channel sideslope 900 feet downstream of Bolivar Street bridge.; <b>Action:</b> Remove trees.; <b>Station_1:</b> 100+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0013 <b>Title:</b> USACE_CELRB_N21L_2016_r_0013_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Unwanted heavy woody vegetation on both banks around Bolivar Road bridge.; <b>Action:</b> Remove vegetation.; <b>Station_1:</b> 91+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,



C-61

Flood Damage Reduction Channels  
Page 10 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0013 <b>Title:</b> USACE_CELRB_N21L_2016_r_0013_2.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Unwanted heavy woody vegetation on both banks around Bolivar Road bridge.; <b>Action:</b> Remove vegetation.; Station_1: 91+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0014 <b>Title:</b> USACE_CELRB_N21L_2016_r_0014_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Vegetation in riprap on right bank around Bolivar Road bridge.; <b>Action:</b> Remove vegetation from riprap.; Station_1: 91+00</p>



US Army Corps  
of Engineers®



Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-62

Flood Damage Reduction Channels  
Page 11 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0014 <b>Title:</b> USACE_CELRB_N21L_2016_r_0014_2.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Vegetation in riprap on right bank around Bolivar Road bridge.; <b>Action:</b> Remove vegetation from riprap.; <b>Station_1:</b> 91+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0018 <b>Title:</b> USACE_CELRB_N21L_2016_r_0018_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Unauthorized Alteration (A-5) - Riverwalk kiosk on left bank channel crest.; <b>Action:</b> Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; <b>Station_1:</b> 85+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,



C-63

Flood Damage Reduction Channels  
Page 12 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0023 <b>Title:</b> USACE_CELRB_N21L_2016_r_0023_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Unwanted vegetation on both bank sideslopes from 750' upstream of Bolivar Road bridge to Madison Street bridge.; <b>Action:</b> Remove unwanted vegetation.; <b>Station_1:</b> 84+00; <b>Station_2:</b> 44+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0023 <b>Title:</b> USACE_CELRB_N21L_2016_r_0023_2.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Unwanted vegetation on both bank sideslopes from 750' upstream of Bolivar Road bridge to Madison Street bridge.; <b>Action:</b> Remove unwanted vegetation.; <b>Station_1:</b> 84+00; <b>Station_2:</b> 44+00</p>



US Army Corps  
of Engineers®



Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-64

Flood Damage Reduction Channels  
Page 13 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0035 <b>Title:</b> USACE_CELRB_N21L_2016_r_0035_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Vegetation in riprap on both banks around Drop Structure; <b>Action:</b> Remove vegetation in riprap.; Station_1: 66+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0035 <b>Title:</b> USACE_CELRB_N21L_2016_r_0035_2.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Vegetation in riprap on both banks around Drop Structure; <b>Action:</b> Remove vegetation in riprap.; Station_1: 66+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-65

Flood Damage Reduction Channels  
Page 14 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0039 <b>Title:</b> USACE_CELRB_N21L_2016_r_0039_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Tree debris in channel just downstream of Drop Structure.; <b>Action:</b> Remove tree debris.; <b>Station_1:</b> 66+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0041 <b>Title:</b> USACE_CELRB_N21L_2016_r_0041_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Unacceptable; <b>Remarks:</b> Vegetation in riprap on left bank 2,200' to 900' downstream of Madison Street (Stevens Street) bridge.; <b>Action:</b> Remove vegetation from riprap.; <b>Station_1:</b> 65+00; <b>Station_2:</b> 52+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-66

Flood Damage Reduction Channels  
Page 15 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0069 <b>Title:</b> USACE_CELRB_N21L_2016_r_0069_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Trees on left bank channel crest from 250' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.; <b>Action:</b> Remove trees.; <b>Station_1:</b> 46+00; <b>Station_2:</b> 44+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0080 <b>Title:</b> USACE_CELRB_N21L_2016_r_0080_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Unacceptable; <b>Remarks:</b> Significant unwanted vegetation and trees on left bank 400' downstream of State Street bridge.; <b>Action:</b> Remove unwanted vegetation and trees.; <b>Station_1:</b> 37+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-67

Flood Damage Reduction Channels  
Page 16 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21L\_2016\_r\_0080 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0080\_2.jpg  
**Rated Item:** 1. Vegetation and Obstructions **Caption:** Rating: Unacceptable; Remarks: Significant unwanted vegetation and trees on left bank 400' downstream of State Street bridge.; Action: Remove unwanted vegetation and trees.; Station\_1: 37+00



**Inspect ID:** N21L\_2016\_r\_0112 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0112\_1.jpg  
**Rated Item:** 1. Vegetation and Obstructions **Caption:** Rating: Unacceptable; Remarks: Significant vegetation in riprap on right bank from 400' downstream of upstream limit weir to barrier levee weir.; Action: Remove vegetation from riprap.; Station\_1: 4+00; Station\_2: 0+00



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-68

Flood Damage Reduction Channels  
Page 17 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21L\_2016\_r\_0115 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0115\_1.jpg  
**Rated Item:** 1. Vegetation and Obstructions **Caption:** Rated Item: 1. Public Sponsor (A or U only); Rating: Acceptable; Remarks: Weir structure at barrier levee ("barrier levee weir") at upstream end of project, clear of debris; Action: NA; Station\_1: 0+00



**Inspect ID:** N21L\_2016\_r\_0116 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0116\_1.jpg  
**Rated Item:** 1. Vegetation and Obstructions **Caption:** Rating: Unacceptable; Remarks: Significant unwanted vegetation and trees on left bank 175' upstream of barrier levee weir.; Action: Remove unwanted vegetation.; Station\_1: 0+00



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-69

Flood Damage Reduction Channels  
Page 18 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0117 <b>Title:</b> USACE_CELRB_N21L_2016_r_0117_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Unacceptable; Remarks: Significant woody vegetation in riprap on right bank from barrier levee weir to 500' upstream of barrier levee weir.; Action: Remove vegetation from riprap.; Station_1: 0+00; Station_2: 0+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0120 <b>Title:</b> USACE_CELRB_N21L_2016_r_0120_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Unacceptable; Remarks: Significant unwanted vegetation on right bank sideslope from 400' downstream of upstream limit weir to upstream limit weir.; Action: Remove unwanted vegetation.; Station_1: 0+00; Station_2: 0+00</p>



US Army Corps  
of Engineers®



Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-70

Flood Damage Reduction Channels  
Page 19 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0123 <b>Title:</b> USACE_CELRB_N21L_2016_r_0123_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Large tree debris in channel at downstream end of large shoal.; <b>Action:</b> Remove tree debris.; <b>Station_1:</b> 0+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0124 <b>Title:</b> USACE_CELRB_N21L_2016_r_0124_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Large tree debris in channel just downstream of weir; <b>Action:</b> Remove tree debris.; <b>Station_1:</b> 0+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,



C-71

Flood Damage Reduction Channels  
Page 20 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0126 <b>Title:</b> USACE_CELRB_N21L_2016_r_0126_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Unacceptable; Remarks: Significant vegetation in riprap on right bank from upstream limit weir to 350' upstream of upstream limit weir.; Action: Remove vegetation from riprap.; Station_1: 0+00; Station_2: 0+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0132 <b>Title:</b> USACE_CELRB_N21L_2016_r_0132_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Soft vegetation on right bank from Island Park to 500 feet upstream of Island Park pedestrian bridge.; Action: Remove soft vegetation.; Station_1: 29+00; Station_2: 11+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-72

Flood Damage Reduction Channels  
Page 21 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0132 <b>Title:</b> USACE_CELRB_N21L_2016_r_0132_2.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Soft vegetation on right bank from Island Park to 500 feet upstream of Island Park pedestrian bridge.; <b>Action:</b> Remove soft vegetation.; <b>Station_1:</b> 29+00; <b>Station_2:</b> 11+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0002 <b>Title:</b> USACE_CELRB_N21L_2016_r_0002_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Grassy shoal (S-1) along right bank from 225' to 700' downstream of golf course pedestrian bridge.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 111+00; <b>Station_2:</b> 106+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-73

Flood Damage Reduction Channels  
Page 22 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0002 <b>Title:</b> USACE_CELRB_N21L_2016_r_0002_2.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Grassy shoal (S-1) along right bank from 225' to 700' downstream of golf course pedestrian bridge.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 111+00; <b>Station_2:</b> 106+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0005 <b>Title:</b> USACE_CELRB_N21L_2016_r_0005_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Four alternating vegetated shoals (S-2, S-3, S-4, S-5) on both banks from green golf course pedestrian bridge to Bolivar Road bridge.; <b>Action:</b> Remove shoals.; <b>Station_1:</b> 103+00; <b>Station_2:</b> 92+00</p>



US Army Corps  
of Engineers®



Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-74

Flood Damage Reduction Channels  
Page 23 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0005 <b>Title:</b> USACE_CELRB_N21L_2016_r_0005_2.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Four alternating vegetated shoals (S-2, S-3, S-4, S-5) on both banks from green golf course pedestrian bridge to Bolivar Road bridge.; <b>Action:</b> Remove shoals.; <b>Station_1:</b> 103+00; <b>Station_2:</b> 92+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0005 <b>Title:</b> USACE_CELRB_N21L_2016_r_0005_3.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Four alternating vegetated shoals (S-2, S-3, S-4, S-5) on both banks from green golf course pedestrian bridge to Bolivar Road bridge.; <b>Action:</b> Remove shoals.; <b>Station_1:</b> 103+00; <b>Station_2:</b> 92+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,



C-75

Flood Damage Reduction Channels  
Page 24 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0005 <b>Title:</b> USACE_CELRB_N21L_2016_r_0005_4.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Four alternating vegetated shoals (S-2, S-3, S-4, S-5) on both banks from green golf course pedestrian bridge to Bolivar Road bridge.; <b>Action:</b> Remove shoals.; <b>Station_1:</b> 103+00; <b>Station_2:</b> 92+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0005 <b>Title:</b> USACE_CELRB_N21L_2016_r_0005_5.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Four alternating vegetated shoals (S-2, S-3, S-4, S-5) on both banks from green golf course pedestrian bridge to Bolivar Road bridge.; <b>Action:</b> Remove shoals.; <b>Station_1:</b> 103+00; <b>Station_2:</b> 92+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-76

Flood Damage Reduction Channels  
Page 25 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0022 <b>Title:</b> USACE_CELRB_N21L_2016_r_0022_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Shoaling (S-6) along right bank from 750' to 1,300' upstream of Bolivar Road bridge (near K-mart Plaza).; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 83+00; <b>Station_2:</b> 78+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0048 <b>Title:</b> USACE_CELRB_N21L_2016_r_0048_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Shoal (S-7) on left bank toe, not part of as-built project (189-WEL-2/5).; <b>Action:</b> Remove Shoal.; <b>Station_1:</b> 60+00; <b>Station_2:</b> 56+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,



C-77

Flood Damage Reduction Channels  
Page 26 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0073 <b>Title:</b> USACE_CELRB_N21L_2016_r_0073_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Minor shoaling (S-8) on left bank from 600' downstream of Madison Street (Stevens Street) bridge to State Street bridge.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 49+00; <b>Station_2:</b> 0+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0073 <b>Title:</b> USACE_CELRB_N21L_2016_r_0073_2.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Minor shoaling (S-8) on left bank from 600' downstream of Madison Street (Stevens Street) bridge to State Street bridge.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 49+00; <b>Station_2:</b> 0+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-78

Flood Damage Reduction Channels  
Page 27 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0073 <b>Title:</b> USACE_CELRB_N21L_2016_r_0073_3.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Minor shoaling (S-8) on left bank from 600' downstream of Madison Street (Stevens Street) bridge to State Street bridge.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 49+00; <b>Station_2:</b> 0+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0102 <b>Title:</b> USACE_CELRB_N21L_2016_r_0102_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Shoaling (S-9) along left bank toe from 450' downstream of Island Park pedestrian walkway bridge to Island Park Pedestrian Walkway Bridge.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 17+00; <b>Station_2:</b> 21+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-79

Flood Damage Reduction Channels  
Page 28 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0102 <b>Title:</b> USACE_CELRB_N21L_2016_r_0102_2.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Shoaling (S-9) along left bank toe from 450' downstream of Island Park pedestrian walkway bridge to Island Park Pedestrian Walkway Bridge.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 17+00; <b>Station_2:</b> 21+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0114 <b>Title:</b> USACE_CELRB_N21L_2016_r_0114_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Minor shoal (S-10) downstream of barrier levee weir.; <b>Action:</b> Remove shoal.; <b>Station_1:</b> 3+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,



C-80

Flood Damage Reduction Channels  
Page 29 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0118 <b>Title:</b> USACE_CELRB_N21L_2016_r_0118_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Unacceptable; <b>Remarks:</b> Significant vegetated shoal (S-11) and trees in channel on right bank from 100'-700' downstream of upstream limit weir.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 0+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0118 <b>Title:</b> USACE_CELRB_N21L_2016_r_0118_2.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Unacceptable; <b>Remarks:</b> Significant vegetated shoal (S-11) and trees in channel on right bank from 100'-700' downstream of upstream limit weir.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 0+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-81

Flood Damage Reduction Channels  
Page 30 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0118 <b>Title:</b> USACE_CELRB_N21L_2016_r_0118_3.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Unacceptable; <b>Remarks:</b> Significant vegetated shoal (S-11) and trees in channel on right bank from 100'-700' downstream of upstream limit weir.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 0+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0127 <b>Title:</b> USACE_CELRB_N21L_2016_r_0127_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Unacceptable; <b>Remarks:</b> Significant vegetated shoaling (S-12) on right bank from 50' to 225' upstream of upstream limit weir.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 0+00; <b>Station_2:</b> 0+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-82

Flood Damage Reduction Channels  
Page 31 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21L\_2016\_r\_0130 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0130\_1.jpg  
**Rated Item:** 2. Shoaling (sediment deposition) **Caption:** Rating: Unacceptable;  
**Remarks:** Significant vegetated shoaling (S-13) with trees in center of channel just upstream of upstream limit weir.; **Action:** Remove shoaling.; **Station\_1:** 0+00



**Inspect ID:** N21L\_2016\_r\_0003 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0003\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; **Remarks:** Unauthorized Alteration (A-1) - Pump station, intake pipe to pump station, and feeder pipes for golf course water.; **Action:** Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; **Station\_1:** 104+00



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-83

Flood Damage Reduction Channels  
Page 32 of 59



# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21L\_2016\_r\_0003 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0003\_2.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-1) - Pump station, intake pipe to pump station, and feeder pipes for golf course water.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station\_1: 104+00



**Inspect ID:** N21L\_2016\_r\_0004 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0004\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-2) - Green golf course pedestrian bridge 1,250' downstream of Boliver Road bridge. NYSDEC says permitted (need to verify).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station\_1: 104+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-84

Flood Damage Reduction Channels  
Page 33 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0009 <b>Title:</b> USACE_CELRB_N21L_2016_r_0009_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-3) - Riprap on right bank toe from 300' upstream of pedestrian bridge to 300 feet downstream of Bolivar Street bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 100+00; Station_2: 93+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0010 <b>Title:</b> USACE_CELRB_N21L_2016_r_0010_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Acceptable; Remarks: Pending Alteration - proposed recreational trail on right bank under bridge connecting Riverwalk trail to Bolivar Road. Currently processing Section 408 paperwork (as of 1/4/17); Action: NA; Station_1: 92+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-85

Flood Damage Reduction Channels  
Page 34 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0010 <b>Title:</b> USACE_CELRB_N21L_2016_r_0010_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Acceptable; Remarks: Pending Alteration - proposed recreational trail on right bank under bridge connecting Riverwalk trail to Bolivar Road. Currently processing Section 408 paperwork (as of 1/4/17); Action: NA; Station_1: 92+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0010 <b>Title:</b> USACE_CELRB_N21L_2016_r_0010_3.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Acceptable; Remarks: Pending Alteration - proposed recreational trail on right bank under bridge connecting Riverwalk trail to Bolivar Road. Currently processing Section 408 paperwork (as of 1/4/17); Action: NA; Station_1: 92+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-86

Flood Damage Reduction Channels  
Page 35 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0010 <b>Title:</b> USACE_CELRB_N21L_2016_r_0010_4.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Acceptable; Remarks: Pending Alteration - proposed recreational trail on right bank under bridge connecting Riverwalk trail to Bolivar Road. Currently processing Section 408 paperwork (as of 1/4/17); Action: NA; Station_1: 92+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0016 <b>Title:</b> USACE_CELRB_N21L_2016_r_0016_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-6) - 42" Outfall on left bank 300' upstream of Bolivar Road bridge (at Top's Plaza).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 88+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-87

Flood Damage Reduction Channels  
Page 36 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21L\_2016\_r\_0025 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0025\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks:  
Unauthorized Alteration (A-7) - 42" outfall on left bank 900' upstream of Bolivar Road  
bridge at K-Mart.; Action: Submit Section 408 Alteration Request to USACE or remove  
unauthorized alteration.; Station\_1: 82+00



**Inspect ID:** N21L\_2016\_r\_0027 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0027\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks:  
Unauthorized Alteration (A-8) - pet sign and post encroachment on left bank channel  
crest.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized  
alteration.; Station\_1: 77+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-88

Flood Damage Reduction Channels  
Page 37 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0030 <b>Title:</b> USACE_CELRB_N21L_2016_r_0030_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-10) - Asphalt access drive and gate on left bank 1,600' upstream of Bolivar Road bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 75+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0030 <b>Title:</b> USACE_CELRB_N21L_2016_r_0030_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-10) - Asphalt access drive and gate on left bank 1,600' upstream of Bolivar Road bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 75+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,



C-89

Flood Damage Reduction Channels  
Page 38 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0030 <b>Title:</b> USACE_CELRB_N21L_2016_r_0030_3.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-10) - Asphalt access drive and gate on left bank 1,600' upstream of Bolivar Road bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 75+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0031 <b>Title:</b> USACE_CELRB_N21L_2016_r_0031_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-9) - 30" CMP outfall on left bank 1,600' upstream of Bolivar Road bridge (just downstream of gravel access drive).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 75+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-90

Flood Damage Reduction Channels  
Page 39 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0032 <b>Title:</b> USACE_CELRB_N21L_2016_r_0032_1.jpg  <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-11) - utility pole and 2 guy wires 1,700' upstream of Bolivar Road bridge (just upstream of asphalt drive).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 74+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0033 <b>Title:</b> USACE_CELRB_N21L_2016_r_0033_1.jpg  <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-13) - Misc. landscaping encroachments (timbers and wooden planter) 1,900' to 2,200' upstream of Bolivar Road bridge (92 Seneca Street).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 72+00; Station_2: 69+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-91

Flood Damage Reduction Channels  
Page 40 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0033 <b>Title:</b> USACE_CELRB_N21L_2016_r_0033_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-13) - Misc. landscaping encroachments (timbers and wooden planter) 1,900' to 2,200' upstream of Bolivar Road bridge (92 Seneca Street).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 72+00; Station_2: 69+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0037 <b>Title:</b> USACE_CELRB_N21L_2016_r_0037_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Vegetation obstructions in Chamberlain Street drainage channel to river.; Action: Remove vegetation obstructions.; Station_1: 69+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-92

Flood Damage Reduction Channels  
Page 41 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0037 <b>Title:</b> USACE_CELRB_N21L_2016_r_0037_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Vegetation obstructions in Chamberlain Street drainage channel to river.; Action: Remove vegetation obstructions.; Station_1: 69+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0037 <b>Title:</b> USACE_CELRB_N21L_2016_r_0037_3.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Vegetation obstructions in Chamberlain Street drainage channel to river.; Action: Remove vegetation obstructions.; Station_1: 69+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-93

Flood Damage Reduction Channels  
Page 42 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21L\_2016\_r\_0040 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0040\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration - Gage house on left bank 2,230' downstream of Madison Street (Stevens Street) bridge is in acceptable condition (NYSDEC says part of project, need to verify).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station\_1: 65+00



**Inspect ID:** N21L\_2016\_r\_0066 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0066\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Aleteration (A-26) - Pearl Street bridge removed.; Action: Submit Section 408 Alteration Request to USACE.; Station\_1: 46+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-94

Flood Damage Reduction Channels  
Page 43 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0067 <b>Title:</b> USACE_CELRB_N21L_2016_r_0067_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-27) - Pipe Line bridge just upstream of Pearl Street bridge removed.; Action: Submit Section 408 Alteration Request to USACE.; Station_1: 46+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0068 <b>Title:</b> USACE_CELRB_N21L_2016_r_0068_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-28) - Fence on left bank channel crest from 250' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 46+00; Station_2: 44+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-95

Flood Damage Reduction Channels  
Page 44 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0068 <b>Title:</b> USACE_CELRB_N21L_2016_r_0068_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-28) - Fence on left bank channel crest from 250' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 46+00; Station_2: 44+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0077 <b>Title:</b> USACE_CELRB_N21L_2016_r_0077_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-32) - Fence (covered in unwanted vegetation) 300' downstream of State Street bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 38+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-96

Flood Damage Reduction Channels  
Page 45 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21L\_2016\_r\_0079 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0079\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-33) - Wellsville High School rail, parking lot, and 2 signs on left bank levee downstream of State Street bridge.; Action: Submit Section 408 Alteration Request Form to USACE.; Station\_1: 37+00



**Inspect ID:** N21L\_2016\_r\_0079 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0079\_2.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-33) - Wellsville High School rail, parking lot, and 2 signs on left bank levee downstream of State Street bridge.; Action: Submit Section 408 Alteration Request Form to USACE.; Station\_1: 37+00



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-97

Flood Damage Reduction Channels  
Page 46 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21L\_2016\_r\_0081 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0081\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-36) - 18" HDPE outfall and duck bill valve on left bank side slope just downstream of State Street bridge owned by NYSDOT. (NYSDEC says permitted); Action: Submit Section 408 Alteration Request to USACE; Station\_1: 34+00



**Inspect ID:** N21L\_2016\_r\_0082 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0082\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-34) - 2 utility poles 6 guy wires 75' downstream of State Street bridge (NYSDEC says permitted).; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station\_1: 35+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-98

Flood Damage Reduction Channels  
Page 47 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21L\_2016\_r\_0091 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0091\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-39) - Fishing access platform and fence on right bank 200' upstream of Steel Sheet Pile Weir.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station\_1: 25+00



**Inspect ID:** N21L\_2016\_r\_0092 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0092\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-40) - Unidentified drainage structure on channel side slope on left bank.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station\_1: 26+00



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-99

Flood Damage Reduction Channels  
Page 48 of 59



# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0098 <b>Title:</b> USACE_CELRB_N21L_2016_r_0098_1.jpg  <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-43) - Parking lot and wooden post barrier on right bank in Island Park 500' upstream of Steel Sheet Pile Weir. Posts and wire rope restrict access.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 22+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0099 <b>Title:</b> USACE_CELRB_N21L_2016_r_0099_1.jpg  <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-44) - Riprap added on right bank toe.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 21+00; Station_2: 17+00</p>



US Army Corps  
of Engineers®


Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-100

Flood Damage Reduction Channels  
Page 49 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0110 <b>Title:</b> USACE_CELRB_N21L_2016_r_0110_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Unacceptable; Remarks: Unauthorized Alteration (A-46) - Wellsville, Addison, &amp; Galetton Railroad trailway rocks obstructing access 575' downstream of barrier levee weir.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 6+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0125 <b>Title:</b> USACE_CELRB_N21L_2016_r_0125_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Minor debris on right bank at upstream limit weir.; Action: Remove debris.; Station_1: 0+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-101

Flood Damage Reduction Channels  
Page 50 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21L\_2016\_r\_0128 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0128\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-47) - Barbed wire fence and metal gate on right bank at upstream limit.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station\_1: 0+00



**Inspect ID:** N21L\_2016\_r\_0131 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0131\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-4) - Sidewalk encroachment (benches and lightposts are not encroachments) along left bank from Bolivar road bridge to 1,775 feet upstream of Bolivar Road bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station\_1: 90+00; Station\_2: 76+00



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-102

Flood Damage Reduction Channels  
Page 51 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0131 <b>Title:</b> USACE_CELRB_N21L_2016_r_0131_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-4) - Sidewalk encroachment (benches and lightposts are not encroachments) along left bank from Bolivar road bridge to 1,775 feet upstream of Bolivar Road bridge.; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 90+00; Station_2: 76+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0134 <b>Title:</b> USACE_CELRB_N21L_2016_r_0134_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Acceptable; Remarks: Unauthorized Alteration (A-12) - guy wire for utility pole on left bank at Seneca Street (utility pole not an encroachment); Action: Submit Section 408 Alteration Request or remove unauthorized alteration.; Station_1: 73+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-103

Flood Damage Reduction Channels  
Page 52 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21L\_2016\_r\_0141 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0141\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks:  
Unauthorized Alteration (A-35) - Concrete siphon gate well on right bank channel  
sideslope (across from school). NYSDEC says permitted.; Action: Submit Section 408  
Alteration Request to USACE.; Station\_1: 36+00



**Inspect ID:** N21L\_2016\_r\_0143 **Title:** USACE\_CELRB\_N21L\_2016\_r\_0143\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks:  
Unauthorized Alteration (A-45) - Wellsville, Addison, & Galetton Railroad railway (from  
Island Park pedestrian bridge to barrier levee weir) and signs on left bank near boulders  
blocking trail on channel crest.; Action: Submit Section 408 Alteration Request to  
USACE or remove unauthorized alteration.; Station\_1: 0+00; Station\_2: 13+00



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-104

Flood Damage Reduction Channels  
Page 53 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0008 <b>Title:</b> USACE_CELRB_N21L_2016_r_0008_1.jpg <b>Rated Item:</b> 4. Erosion <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Erosion at 2 outfalls (36" and 24" diameter) on LB upstream of pedestrian bridge. Pipe extension required.; Action: Repair erosion and modify pipe.; Station_1: 100+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0008 <b>Title:</b> USACE_CELRB_N21L_2016_r_0008_2.jpg <b>Rated Item:</b> 4. Erosion <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Erosion at 2 outfalls (36" and 24" diameter) on LB upstream of pedestrian bridge. Pipe extension required.; Action: Repair erosion and modify pipe.; Station_1: 100+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-105

Flood Damage Reduction Channels  
Page 54 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0109 <b>Title:</b> USACE_CELRB_N21L_2016_r_0109_1.jpg <b>Rated Item:</b> 4. Erosion <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Erosion and animal burrow on left bank.; Action: Repair erosion and animal burrow.; Station_1: 13+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0012 <b>Title:</b> USACE_CELRB_N21L_2016_r_0012_1.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Riprap missing or covered on left bank underneath Bolivar Road bridge.; Action: Replace or uncover missing riprap.; Station_1: 91+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-106

Flood Damage Reduction Channels  
Page 55 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0012 <b>Title:</b> USACE_CELRB_N21L_2016_r_0012_2.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Riprap missing or covered on left bank underneath Bolivar Road bridge.; Action: Replace or uncover missing riprap.; Station_1: 91+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0034 <b>Title:</b> USACE_CELRB_N21L_2016_r_0034_1.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Vegetation in left bank riprap from 1,900' to 2,500' upstream of Bolivar Road bridge.; Action: Remove vegetation from riprap.; Station_1: 72+00; Station_2: 66+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,


C-107

Flood Damage Reduction Channels  
Page 56 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0042 <b>Title:</b> USACE_CELRB_N21L_2016_r_0042_1.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Significant woody unwanted vegetation on left bank channel sideslopes from 2,200' downstream of the Madison Street (Stevens Street) bridge to the Madison Street bridge.; Action: Remove unwanted vegetation.; Station_1: 44+00; Station_2: 64+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0050 <b>Title:</b> USACE_CELRB_N21L_2016_r_0050_1.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Vegetation in riprap on right bank from 1,600' to 1,300' downstream of Madison Street (Stevens Street) bridge.; Action: Remove vegetation from riprap.; Station_1: 59+00; Station_2: 56+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-108

Flood Damage Reduction Channels  
Page 57 of 59



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0055 <b>Title:</b> USACE_CELRB_N21L_2016_r_0055_1.jpg <b>Rated Item:</b> 11. Revetments other than Riprap <b>Caption:</b> Rating: Acceptable; Remarks: 15' x 3' concrete spalling repaired on right bank 975' downstream of Madison Street (Stevens Street) bridge.; Action: NA; Station_1: 52+00</p>
	<p><b>Inspect ID:</b> N21L_2016_r_0056 <b>Title:</b> USACE_CELRB_N21L_2016_r_0056_1.jpg <b>Rated Item:</b> 11. Revetments other than Riprap <b>Caption:</b> Rating: Acceptable; Remarks: Minor unwanted vegetation removed from joints of right bank concrete channel surface from 900' downstream of Madison Street (Stevens Street) bridge to Madison Street bridge.; Action: Remove unwanted vegetation.; Station_1: 52+00; Station_2: 43+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-109

Flood Damage Reduction Channels  
Page 58 of 59

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21L_2016_r_0062 <b>Title:</b> USACE_CELRB_N21L_2016_r_0062_1.jpg <b>Rated Item:</b> 11. Revetments other than Riprap <b>Caption:</b> Rating: Acceptable; Remarks: Cracking in concrete sideslope repaired on right bank 250' downstream of Madison Street (Stevens Street) bridge.; Action: NA; Station_1: 45+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Left Bank and Channel,

C-110

Flood Damage Reduction Channels  
Page 59 of 59

Attachment “D” –  
Genesee River – Right Bank and Dyke Creek, Wellsville  
Flood Damage Reduction System Inspection Report





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## Flood Damage Reduction Segment / System Inspection Report

Name of Segment / System: Genesee River - Right Bank and Dyke Creek, Wellsville

Public Sponsor(s): NYSDEC - Region 9

Public Sponsor Representative: Theodore A. Myers, P.E.

Sponsor Phone: (716) 851-7070

Sponsor Email: theodore.myers@dec.ny.gov

Corps of Engineers Inspector: USACE - Buffalo District

Inspection Start Date: 9/23/2016

Inspection End Date: \_\_\_\_\_

Inspection Report Prepared By: \_\_\_\_\_

Date Report Prepared: \_\_\_\_\_

Internal Technical Review (for Periodic Inspections) By: \_\_\_\_\_

Date of ITR: \_\_\_\_\_

Final Approved By: \_\_\_\_\_

Date Approved: \_\_\_\_\_

Type of Inspection:

☐

**Initial Eligibility Inspection**

☒

**Continuing Eligibility Inspection (Routine)**

☐

**Continuing Eligibility Inspection (Periodic)**

Overall Segment / System Rating:

☐

**Acceptable**

☐

**Minimally Acceptable**

☒

**Unacceptable**

Contents of Report:

☒

**Instructions**

☐

**Initial Eligibility Inspection**

☒

**General Items for All Flood Control Works**

☒

**Levee Embankment**

☐

**Concrete Floodwalls**

☐

**Sheet Pile and Concrete I-walls**

☒

**Interior Drainage System**

☐

**Pump Stations**

☒

**FDR System Channels**

Note: In addition to the report contents indicated here, a plan view drawing of the system, with stationing, should be included with this report to reference locations of items rated less than acceptable. Photos of general system condition and any noted deficiencies should also be attached.

Note: This inspection rating represents the Corps evaluation of operations and maintenance of the flood damage reduction system and may be used in conjunction with other information for a levee certification determination for National Flood Insurance Program (NFIP) purposes if applicable. An Acceptable Corps inspection rating, alone, does not equate to a certifiable levee for the NFIP. It is recommended for levee systems currently accredited by the Federal Emergency Management Agency (FEMA) for NFIP purposes receiving a Corps Minimally Acceptable or Unacceptable rating, be evaluated by the levee owner to determine the potential impacts to the certification for FEMA.



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# **Flood Damage Reduction Segment / System 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.

<b>1. Levee segment / system and district: (name of the segment / system and levee district)</b> Genesee River - Right Bank and Dyke Creek, Wellsville for CELRB
<b>2. Reporting period: (month/day/year to month/day/year)</b>
<b>3. Summary of maintenance required by last inspection report:</b>
<b>4. Summary of maintenance performed this reporting period:</b>
<b>5. Summary of maintenance planned next reporting period:</b>
<b>6. Summary of changes to segment / system since last inspection:</b>
<b>7. Problems/ issues requiring the assistance of the US Army Corps of Engineers:</b>



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**Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke**

**Pre-Inspection Form  
Page 1 of 2**

Public Sponsor Pre-Inspection Report

The following information is to be provided by the levee district sponsor prior to an inspection

8. Levee district organization: (elected or appointed levee district officials and key employees)

Name	Position	Mailing Address	Phone Number	Email Address



## 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.	RIs are intended to verify proper maintenance, owner preparedness, and component operation.	PIs 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.



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**Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke Creek,**

**General Instructions  
Page 1 of 3**

**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.

<b>If the Overall System Rating is Acceptable</b>	<b>If the Overall System Rating is Minimally Acceptable</b>	<b>If the Overall System Rating is Unacceptable</b>
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.



## General Items for All Flood Damage Reduction Segments / Systems

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	<b>A</b>	<b>A</b>	Levee Owner's Manual, O&M Manuals, and/or manufacturer's operating instructions are present.	
		<b>M</b>	Sponsor manuals are lost or missing or out of date; however, sponsor will obtain manuals prior to next scheduled inspection.	
		<b>U</b>	Sponsor has not obtained lost or missing manuals identified during previous inspection.	
2. Emergency Supplies and Equipment (A or M only)	<b>A</b>	<b>A</b>	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.	
		<b>M</b>	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)	<b>A</b>	<b>A</b>	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.	
		<b>M</b>	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.	

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



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

General Items for All Flood Damage Reduction  
Segments / Systems  
Page 1 of 1

# Levee Embankments

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

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Unwanted Vegetation Growth <sup>1</sup>	<b>U</b>	<b>A</b>	The levee 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 levee profile. The levee has been recently mowed. The vegetation-free zone extends 15 feet from both the landside and riverside toes of the levee to the centerline of the tree. If the levee access easement doesn't extend to the described limits, then the vegetation-free zone must be maintained to the easement limits. Reference EM 1110-2-301 or Corps policy for regional vegetation variance.	N21R_2016_r_0001: Station_1 35+00: Trees on left bank levee landside slope 700' upstream of Drop Structure. (Dyke Creek): Remove trees. (U) N21R_2016_r_0003: Station_1 35+00: Station_2 35+00: Significant trees and unwanted vegetation on left bank from levee upstream limit to just upstream of the Drop Structure. (Dyke Creek): Remove trees and unwanted vegetation. (U) N21R_2016_r_0035: Station_1 0+00: Station_2 0+00: Unwanted vegetation on right bank barrier levee waterside slope and within 15' of riverside toe. (Right Bank): Remove unwanted vegetation. (M)
		<b>M</b>	Minimal vegetation growth (brush, weeds, or trees 2 inches in diameter or smaller) is present within the zones described above. This vegetation must be removed but does not currently threaten the operation or integrity of the levee.	
		<b>U</b>	Significant vegetation growth (brush, weeds, or any trees greater than 2 inches in diameter) is present within the zones described above and must be removed to reestablish or ascertain levee integrity.	
2. Sod Cover	<b>A</b>	<b>A</b>	There is good coverage of sod over the levee.	
		<b>M</b>	Approximately 25% of the sod cover is missing or damaged over a significant portion or over significant portions of the levee embankment. This may be the result of over-grazing or feeding on the levee, unauthorized vehicular traffic, chemical or insect problems, or burning during inappropriate seasons.	
		<b>U</b>	Over 50% of the sod cover is missing or damaged over a significant portion or portions of the levee embankment.	
		<b>N/A</b>	Surface protection is provided by other means.	
3. Encroachments	<b>M</b>	<b>A</b>	No trash, debris, unauthorized farming activity, 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 levee.	N21R_2016_r_0002: Station_1 35+00: Unauthorized Alteration (A-49) - Levee overbuild added on to USACE levee at upstream limit by Soil Conservation Service to levee upstream limit. (Dyke Creek): Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M) N21R_2016_r_0036: Station_1 0+00: Unauthorized Alteration (A-57) - Gray brick utility building and sidewalk within 15' of right bank barrier levee landside toe.: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M) N21R_2016_r_0037: Station_1 0+00: Unauthorized Alteration (A-59) - Right bank barrier levee removed at east end for access road. (Right Bank): Resolve unauthorized alteration (repair levee to As-Built conditions) or submit a Section 408 Alteration Request Form. (M) N21R_2016_r_0038: Station_1 0+00: Unauthorized Alteration (A-58) - Road and fence through and across right bank barrier levee. (Right Bank): Submit Section 408
		<b>M</b>	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. Encroachments have not been reviewed by the Corps.	
		<b>U</b>	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the levee.	

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



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

Levee Embankments  
Page 1 of 13

# Levee Embankments

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

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
				Alteration Request to USACE or remove unauthorized alteration. (M) N21R_2016_r_0047: Station_1 0+00: Station_2 0+00: Unauthorized Alteration (A-56) - Chain link fence along right bank barrier levee within 15 feet of levee landside toe at ball field (approx. 100 feet as measured from road. (Right Bank): Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)
4. Closure Structures (Stop Log, Earthen Closures, Gates, or Sandbag Closures) (A or U only)	NA	A	Closure structure in good repair. Placing equipment, stoplogs, and other materials are readily available at all times. Components are clearly marked and installation instructions/ procedures readily available. Trial erections have been accomplished in accordance with the O&M Manual.	
		U	Any of the following issues is cause for this rating: Closure structure in poor condition. Parts missing or corroded. Placing equipment may not be available within the anticipated warning time. The storage vaults cannot be opened during the time of inspection. Components of closure are not clearly marked and installation instructions/ procedures are not readily available. Trial erections have not been accomplished in accordance with the O&M Manual.	
		N/A	There are no closure structures along this component of the FDR segment / system.	
5. Slope Stability	A	A	No slides, sloughs, tension cracking, slope depressions, or bulges are present.	N21R_2016_r_0040: Station_1 0+00: right bank levee at barrier levee.: NA (A) N21R_2016_r_0041: Station_1 14+00: Typical view of right bank levee, looking upstream. (Right Bank): NA (A)
		M	Minor slope stability problems that do not pose an immediate threat to the levee embankment.	
		U	Major slope stability problems (ex. deep seated sliding) identified that must be repaired to reestablish the integrity of the levee embankment.	
6. Erosion/ Bank Caving	A	A	No erosion or bank caving is observed on the landward or riverward sides of the levee that might endanger its stability.	
		M	There are areas where minor erosion is occurring or has occurred on or near the levee embankment, but levee integrity is not threatened.	
		U	Erosion or caving is occurring or has occurred that threatens the stability and integrity of the levee. The erosion or caving has progressed into the levee section or into the extended footprint of the levee foundation and has compromised the levee foundation stability.	
7. Settlement <sup>2</sup>	A	A	No observed depressions in crown. Records exist and indicate no unexplained historical changes.	
		M	Minor irregularities that do not threaten integrity of levee. Records are incomplete or inclusive.	
		U	Obvious variations in elevation over significant reaches. No records exist or records indicate that design elevation is compromised.	

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-9

Levee Embankments  
Page 2 of 13



# Levee Embankments

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

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
8. Depressions/ Rutting	<b>A</b>	<b>A</b>	There are scattered, shallow ruts, pot holes, or other depressions on the levee that are unrelated to levee settlement. The levee crown, embankments, and access road crowns are well established and drain properly without any ponded water.	
		<b>M</b>	There are some infrequent minor depressions less than 6 inches deep in the levee crown, embankment, or access roads that will pond water.	
		<b>U</b>	There are depressions greater than 6 inches deep that will pond water.	
9. Cracking	<b>A</b>	<b>A</b>	Minor longitudinal, transverse, or desiccation cracks with no vertical movement along the crack. No cracks extend continuously through the levee crest.	
		<b>M</b>	Longitudinal and/or transverse cracks up to 6 inches in depth with no vertical movement along the crack. No cracks extend continuously through the levee crest. Longitudinal cracks are no longer than the height of the levee.	
		<b>U</b>	Cracks exceed 6 inches in depth. Longitudinal cracks are longer than the height of the levee and/or exhibit vertical movement along the crack. Transverse cracks extend through the entire levee width.	
10. Animal Control	<b>A</b>	<b>A</b>	Continuous animal burrow control program in place that includes the elimination of active burrowing and the filling in of existing burrows.	
		<b>M</b>	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.	
		<b>U</b>	Animal burrow control program is not effective or is nonexistent. Significant maintenance is required to fill existing burrows, and the levee will not provide reliable flood protection until this maintenance is complete.	
11. Culverts/ Discharge Pipes <sup>3</sup> (This item includes both concrete and corrugated metal pipes.)	<b>M</b>	<b>A</b>	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.	*See Interior Drainage System, Item 9. Culverts/Discharge Pipes.
		<b>M</b>	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.	

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US Army Corps  
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## Flood Damage Reduction Segment / System Inspection Report Genesee River - Right Bank and Dyke

D-10

Levee Embankments  
Page 3 of 13

# Levee Embankments

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

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
		<b>U</b>	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.	
		<b>N/A</b>	There are no discharge pipes/ culverts.	
12. Riprap Revetments & Bank Protection	<b>A</b>	<b>A</b>	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.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.	
13. Revetments other than Riprap	<b>A</b>	<b>A</b>	Existing revetment protection is properly maintained, undamaged, and clearly visible.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no such revetments protecting this feature of the segment / system.	
14. Underseepage Relief Wells/ Toe Drainage Systems	<b>NA</b>	<b>A</b>	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.	
		<b>M</b>	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.	

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US Army Corps  
of Engineers®

## Flood Damage Reduction Segment / System Inspection Report Genesee River - Right Bank and Dyke

D-11

Levee Embankments  
Page 4 of 13

# Levee Embankments

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

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
15. Seepage	<b>A</b>	<b>U</b>	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.	
		<b>N/A</b>	There are no relief wells/ toe drainage systems along this component of the FDR segment / system.	
		<b>A</b>	No evidence or history of unrepaired seepage, saturated areas, or boils.	
		<b>M</b>	Evidence or history of minor unrepaired seepage or small saturated areas at or beyond the landside toe but not on the landward slope of levee. No evidence of soil transport.	
		<b>U</b>	Evidence or history of active seepage, extensive saturated areas, or boils.	

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

<sup>2</sup> Detailed survey elevations are normally required during Periodic Inspections, and whenever there are obvious visual settlements.

<sup>3</sup> The decision on whether or not USACE inspectors should enter a pipe to perform a detailed inspection must be made at the USACE District level. This decision should be made in conjunction with the District Safety Office, as pipes may be considered confined spaces. This decision should consider the age of the pipe, the diameter of the pipe, the apparent condition of the pipe, and the length of the pipe. If a pipe is entered for the purposes of inspection, the inspector should record observations with a video camera in order that the condition of the entire pipe, including all joints, can later be assessed. Additionally, the video record provides a baseline to which future inspections can be compared.

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US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke



D-12

Levee Embankments  
Page 5 of 13



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21R_2016_r_0001 <b>Title:</b> USACE_CELRB_N21R_2016_r_0001_1.jpg  <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Unacceptable; Remarks: Trees on left bank levee landside slope 700' upstream of Drop Structure. (Dyke Creek); Action: Remove trees.; Station_1: 35+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0003 <b>Title:</b> USACE_CELRB_N21R_2016_r_0003_1.jpg  <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Unacceptable; Remarks: Significant trees and unwanted vegetation on left bank from levee upstream limit to just upstream of the Drop Structure. (Dyke Creek); Action: Remove trees and unwanted vegetation.; Station_1: 35+00; Station_2: 35+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-13

Levee Embankments  
Page 6 of 13

## Levee Embankments

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

	<p><b>Inspect ID:</b> N21R_2016_r_0035 <b>Title:</b> USACE_CELRB_N21R_2016_r_0035_1.jpg  <b>Rated Item:</b> 1. Unwanted Vegetation Growth <b>Caption:</b> Rating: Minimally Acceptable;  Remarks: Unwanted vegetation on right bank barrier levee waterside slope and within 15' of riverside toe. (Right Bank); Action: Remove unwanted vegetation.; Station_1: 0+00; Station_2: 0+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0002 <b>Title:</b> USACE_CELRB_N21R_2016_r_0002_1.jpg  <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks:  Unauthorized Alteration (A-49) - Levee overbuild added on to USACE levee at upstream limit by Soil Conservation Service to levee upstream limit. (Dyke Creek); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 35+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-14

Levee Embankments  
Page 7 of 13



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21R_2016_r_0002 <b>Title:</b> USACE_CELRB_N21R_2016_r_0002_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-49) - Levee overbuild added on to USACE levee at upstream limit by Soil Conservation Service to levee upstream limit. (Dyke Creek); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 35+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0036 <b>Title:</b> USACE_CELRB_N21R_2016_r_0036_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-57) - Gray brick utility building and sidewalk within 15' of right bank barrier levee landside toe. ; Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 0+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-15

Levee Embankments  
Page 8 of 13



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21R_2016_r_0037 <b>Title:</b> USACE_CELRB_N21R_2016_r_0037_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-59) - Right bank barrier levee removed at east end for access road. (Right Bank); Action: Resolve unauthorized alteration (repair levee to As-Built conditions) or submit a Section 408 Alteration Request Form.; Station_1: 0+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0037 <b>Title:</b> USACE_CELRB_N21R_2016_r_0037_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-59) - Right bank barrier levee removed at east end for access road. (Right Bank); Action: Resolve unauthorized alteration (repair levee to As-Built conditions) or submit a Section 408 Alteration Request Form.; Station_1: 0+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-16

Levee Embankments  
Page 9 of 13

# Levee Embankments

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

	<p><b>Inspect ID:</b> N21R_2016_r_0037 <b>Title:</b> USACE_CELRB_N21R_2016_r_0037_3.jpg  <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-59) - Right bank barrier levee removed at east end for access road. (Right Bank); Action: Resolve unauthorized alteration (repair levee to As-Built conditions) or submit a Section 408 Alteration Request Form.; Station_1: 0+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0037 <b>Title:</b> USACE_CELRB_N21R_2016_r_0037_4.jpg  <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-59) - Right bank barrier levee removed at east end for access road. (Right Bank); Action: Resolve unauthorized alteration (repair levee to As-Built conditions) or submit a Section 408 Alteration Request Form.; Station_1: 0+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-17

Levee Embankments  
Page 10 of 13



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21R_2016_r_0037 <b>Title:</b> USACE_CELRB_N21R_2016_r_0037_5.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-59) - Right bank barrier levee removed at east end for access road. (Right Bank); Action: Resolve unauthorized alteration (repair levee to As-Built conditions) or submit a Section 408 Alteration Request Form.; Station_1: 0+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0038 <b>Title:</b> USACE_CELRB_N21R_2016_r_0038_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-58) - Road and fence through and across right bank barrier levee. (Right Bank); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 0+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-18

Levee Embankments  
Page 11 of 13



## Levee Embankments

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

	<p><b>Inspect ID:</b> N21R_2016_r_0047 <b>Title:</b> USACE_CELRB_N21R_2016_r_0047_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-56) - Chain link fence along right bank barrier levee within 15 feet of levee landside toe at ball field (approx. 100 feet as measured from road. (Right Bank); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 0+00; Station_2: 0+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0040 <b>Title:</b> USACE_CELRB_N21R_2016_r_0040_1.jpg <b>Rated Item:</b> 5. Slope Stability <b>Caption:</b> Rating: Acceptable; Remarks: right bank levee at barrier levee.; Action: NA; Station_1: 0+00</p>



US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-19

Levee Embankments  
Page 12 of 13

## Levee Embankments

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

	<p><b>Inspect ID:</b> N21R_2016_r_0041 <b>Title:</b> USACE_CELRB_N21R_2016_r_0041_1.jpg <b>Rated Item:</b> 5. Slope Stability <b>Caption:</b> Rating: Acceptable; Remarks: Typical view of right bank levee, looking upstream. (Right Bank); Action: NA; Station_1: 14+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-20

Levee Embankments  
Page 13 of 13

# Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Vegetation and Obstructions	<b>A</b>	<b>A</b>	No obstructions, vegetation, debris, or sediment accumulation noted within interior drainage channels or blocking the culverts, inlets, or discharge areas. Concrete joints and weep holes are free of grass and weeds.	
		<b>M</b>	Obstructions, vegetation, debris, or sediment are minor and have not impaired channel flow capacity or blocked more than 10% of any culvert openings, but should be removed. A limited volume of grass and weeds may be present in concrete channel joints and weep holes.	
		<b>U</b>	Obstructions, vegetation, debris, or sediment have impaired the channel flow capacity or blocked more than 10% of a culvert opening. Sediment and debris removal required to re-establish flow capacity.	
2. Encroachments	<b>A</b>	<b>A</b>	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 interior drainage system.	N21R_2016_r_0008: Station_1 35+00: 24" CMP on left bank downstream of Drop Structure is not an encroachment, it existed prior to project. (Dyke Creek): NA (A)
		<b>M</b>	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.	
		<b>U</b>	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of this component of the interior drainage system.	
3. Ponding Areas	<b>NA</b>	<b>A</b>	No trash, debris, structures, or other obstructions present within the ponding areas. Sediment deposits do not exceed 10% of capacity.	
		<b>M</b>	Trash, debris, excavations, structures, or other obstructions present, or inappropriate activities that will not inhibit operations and maintenance. Sediment deposits do not exceed 30% of capacity.	
		<b>U</b>	Trash, debris, excavations, structures, or other obstructions, or other encroachments or activities noted that will inhibit operations, maintenance, or emergency work. Sediment deposits exceeds 30% of capacity.	
		<b>N/A</b>	There are no ponding areas associated with the interior drainage system.	
4. Fencing and Gates <sup>1</sup>	<b>NA</b>	<b>A</b>	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.	
		<b>M</b>	Fencing or gates are damaged or corroded but appear to be maintainable. Locks may be missing or damaged.	
		<b>U</b>	Fencing and gates are damaged or corroded to the point that replacement is required, or potentially dangerous features are not secured.	
		<b>N/A</b>	There are no features noted that require safety fencing.	
5. Concrete Surfaces (Such as gate)	<b>A</b>	<b>A</b>	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.	

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

Interior Drainage System  
Page 1 of 6



# Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
wells, outfalls, intakes, or culverts)		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no concrete items in the interior drainage system.	
6. Tilting, Sliding or Settlement of Concrete and Sheet Pile Structures <sup>2</sup> (Such as gate wells, outfalls, intakes, or culverts)	<b>A</b>	<b>A</b>	There are no significant areas of tilting, sliding, or settlement that would endanger the integrity of the structure.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no concrete items in the interior drainage system.	
7. Foundation of Concrete Structures <sup>3</sup> (Such as culverts, inlet and discharge structures, or gatewells.)	<b>A</b>	<b>A</b>	No active erosion, scouring, or bank caving that might endanger the structure's stability.	
		<b>M</b>	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. The rate of erosion is such that the structure is expected to remain stable until the next inspection.	
		<b>U</b>	Erosion or bank caving observed that may lead to structural instabilities before the next inspection.	
		<b>N/A</b>	There are no concrete items in the interior drainage system.	
8. Monolith Joints	<b>NA</b>	<b>A</b>	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.	
		<b>M</b>	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.	

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US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-22

Interior Drainage System  
Page 2 of 6

## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
		<b>U</b>	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.	
		<b>N/A</b>	There are no monolith joints in the interior drainage system.	
9. Culverts/ Discharge Pipes <sup>4</sup>	<b>M</b>	<b>A</b>	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.	N21R_2016_r_0039: Station_1 0+00: 24" CMP at east end of right bank barrier levee is 80% obstructed by sediment. (Right Bank): Clear obstructed outfall. (M)
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no discharge pipes/ culverts.	
10. Sluice / Slide Gates <sup>5</sup>	<b>NA</b>	<b>A</b>	Gates open and close freely to a tight seal or minor leakage. Gate operators are in good working condition and are properly maintained. Sill is free of sediment and other obstructions. Gates and lifters have been maintained and are free of corrosion. Documentation provided during the inspection.	
		<b>M</b>	Gates and/or operators have been damaged or have minor corrosion, and open and close with resistance or binding. Leakage quantity is controllable, but maintenance is required. Sill is free of sediment and other obstructions.	
		<b>U</b>	Gates do not open or close and/or operators do not function. Gate, stem, lifter and/or guides may be damaged or have major corrosion.	
		<b>N/A</b>	There are no sluice/ slide gates.	

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

Interior Drainage System  
Page 3 of 6

# Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
11. Flap Gates/ Flap Valves/ Pinch Valves <sup>1</sup>	<b>A</b>	<b>A</b>	Gates/ valves open and close easily with minimal leakage, have no corrosion damage, and have been exercised and lubricated as required.	
		<b>M</b>	Gates/ valves will not fully open or close because of obstructions that can be easily removed, or have minor corrosion damage that requires maintenance.	
		<b>U</b>	Gates/ valves are missing, have been damaged, or have deteriorated to the point that they need to be replaced.	
		<b>N/A</b>	There are no flap gates.	
12. Trash Racks (non-mechanical)	<b>NA</b>	<b>A</b>	Trash racks are fastened in place and properly maintained.	
		<b>M</b>	Trash racks are in place but are unfastened or have bent bars that allow debris to enter into the pipe or pump station, bars are corroded to the point that up to 10% of the sectional area may be lost. Repair or replacement is required.	
		<b>U</b>	Trash racks are missing or damaged to the extent that they are no longer functional and must be replaced. (For example, more than 10% of the sectional area may be lost.)	
		<b>N/A</b>	There are no trash racks, or they are covered in the pump stations section of the report.	
13. Other Metallic Items	<b>NA</b>	<b>A</b>	All metal parts are protected from corrosion damage and show no rust, damage, or deterioration that would cause a safety concern.	
		<b>M</b>	Corrosion seen on metallic parts appears to be maintainable.	
		<b>U</b>	Metallic parts are severely corroded and require replacement to prevent failure, equipment damage, or safety issues.	
		<b>N/A</b>	There are no other significant metallic items.	
14. Riprap Revetments of Inlet/ Discharge Areas	<b>A</b>	<b>A</b>	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.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.	
15. Revetments other than Riprap	<b>NA</b>	<b>A</b>	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.	

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

Interior Drainage System  
Page 4 of 6



# Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no such revetments protecting this feature of the segment / system.	

<sup>1</sup> Proper operation of this item must be demonstrated during the inspection.

<sup>2</sup> The sponsor should be monitoring any observed movement to verify whether the movement is active or inactive.

<sup>3</sup> Inspectors must have as-built drawings available during the inspection so that the lateral distance to the heel and toe of the floodwalls can be determined in the field.

<sup>4</sup> The decision on whether or not USACE inspectors should enter a pipe to perform a detailed inspection must be made at the USACE District level. This decision should be made in conjunction with the District Safety Office, as pipes may be considered confined spaces. This decision should consider the age of the pipe, the diameter of the pipe, the apparent condition of the pipe, and the length of the pipe. If a pipe is entered for the purposes of inspection, the inspector should record observations with a video camera in order that the condition of the entire pipe, including all joints, can later be assessed. Additionally, the video record provides a baseline to which future inspections can be compared.

<sup>5</sup> Proper operation of the gates (full open and closed) must be demonstrated during the inspection if no documentation is available. Be aware of both manual and electrical operators.

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

Interior Drainage System  
Page 5 of 6

## Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

	<p><b>Inspect ID:</b> N21R_2016_r_0008 <b>Title:</b> USACE_CELRB_N21R_2016_r_0008_1.jpg <b>Rated Item:</b> 2. Encroachments <b>Caption:</b> Rating: Acceptable; Remarks: 24" CMP on left bank downstream of Drop Structure is not an encroachment, it existed prior to project. (Dyke Creek); Action: NA; Station_1: 35+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0039 <b>Title:</b> USACE_CELRB_N21R_2016_r_0039_1.jpg <b>Rated Item:</b> 9. Culverts/ Discharge Pipes <b>Caption:</b> Rating: Minimally Acceptable; Remarks: 24" CMP at east end of right bank barrier levee is 80% obstructed by sediment. (Right Bank); Action: Clear obstructed outfall.; Station_1: 0+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-26

Interior Drainage System  
Page 6 of 6

# Flood Damage Reduction Channels

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	<b>U</b>	<b>A</b>	No obstructions, vegetation, debris, or sediment accumulation within the channel. Concrete channel joints and weep holes are free of grass and weeds.	N21R_2016_r_0004: Station_1 35+00: Log debris in channel on right bank shoal 500' upstream of drop structure. (Dyke Creek): Remove debris. (M)
		<b>M</b>	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.	N21R_2016_r_0013: Station_1 35+00: Significant vegetation and trees on right bank upstream of drop structure. (Dyke Creek): Remove vegetation and trees. (M)
		<b>U</b>	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.	N21R_2016_r_0020: Station_1 24+00: Station_2 26+00: Vegetation on left bank upstream of Broad Street bridge. (Dyke Creek): Remove Vegetation. (M) N21R_2016_r_0021: Station_1 24+00: Debris in channel just upstream of Broad Street bridge. (Dyke Creek): Remove debris. (M) N21R_2016_r_0028: Station_1 18+00: Debris on upstream face of Main Street bridge abutment. (Dyke Creek): Remove debris. (M) N21R_2016_r_0031: Station_1 17+00: Tree debris in channel downstream of Main Street bridge. (Dyke Creek): Remove tree debris. (M) N21R_2016_r_0045: Station_1 35+00: Station_2 24+00: Significant unwanted vegetation on left bank from Broad Street bridge to Drop Structure. (Dyke Creek): Remove unwanted vegetation. (U)
2. Shoaling <sup>1</sup> (sediment deposition)	<b>M</b>	<b>A</b>	No shoaling or minor, non-vegetated shoaling is present.	N21R_2016_r_0005: Station_1 35+00: Station_2 35+00: Shoaling (S-14) on right bank from 200' upstream of drop structure to upstream project limit. (Dyke Creek): Remove shoaling. (M)
		<b>M</b>	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.	N21R_2016_r_0014: Station_1 34+00: Minor shoal (S-15) in center of channel 100' downstream of drop structure to 200' downstream of drop structure. (Dyke Creek): Remove shoal. (M)
		<b>U</b>	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.	N21R_2016_r_0017: Station_1 24+00: Station_2 33+00: Shoaling (S-16) on left bank and in center of channel from drop structure to Broadway Street bridge. (Dyke Creek): Remove shoal. (M) N21R_2016_r_0030: Station_1 12+00: Station_2 18+00: Vegetated shoals (S-17) on concrete sideslopes on both banks and in channel from State Route 417 bridge to Main Street bridge. (Dyke Creek): Remove vegetation from concrete. (M) N21R_2016_r_0043: Station_1 11+00: Station_2 2+00: Vegetated shoaling (S-18) on both banks from convergence of Dyke Creek to the State Route 417 bridge.: Remove

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US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

Flood Damage Reduction Channels  
Page 1 of 25



# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
				shoaling. (M)
3. Encroachments	<b>M</b>	<b>A</b>	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.	N21R_2016_r_0006: Station_1 35+00: 24" CMP drainage inlet on left bank 175' upstream of Drop Structure is not an encroachment, part of existing drainage prior to project. (Dyke Creek): NA (A)
		<b>M</b>	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.	N21R_2016_r_0007: Station_1 35+00: Drop Structure in acceptable condition. (Dyke Creek): NA (A) N21R_2016_r_0011: Station_1 35+00: Unauthorized Alteration (A-50) - Concrete blocks, guardrail, utility pole, guy wire, and dead end sign encroachments on left bank at end of Miller Street just upstream of drop structure. (Dyke Creek): Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)
		<b>U</b>	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the channel.	N21R_2016_r_0024: Station_1 21+00: Unauthorized Alteration (A-51) - wood stairs on left bank channel slope just downstream of railroad bridge. (Dyke Creek): Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M) N21R_2016_r_0025: Station_1 21+00: Unauthorized Alteration (A-52) - wood stairs and railing encroachments on left bank channel slope just downstream of railroad bridge. (Dyke Creek): Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M) N21R_2016_r_0026: Station_1 20+00: Unauthorized alteration (A-53) - wood stairs left bank channel slope. (Dyke Creek): Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M) N21R_2016_r_0033: Station_1 15+00: Station_2 13+00: Unauthorized Alteration(A-55) - Heating, electrical, and plumbing yard on Dyke Creek left bank just upstream of State Route 417 bridge. (Dyke Creek): Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M) N21R_2016_r_0042: Station_1 11+00: Approved Alteration - State Route 417 bridge replacement over Dyke Creek.: NA (A) N21R_2016_r_0046: Station_1 D 20+00: Unauthorized Alteration (A-54) - 12 inch metal outfall pipe with riprap apron on left bank channel slope just upstream of Main Street bridge. (Dyke Creek): Submit Section 408 Alteration Request to USACE or remove unauthorized alteration. (M)

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US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

Flood Damage Reduction Channels  
Page 2 of 25

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
4. Erosion	<b>M</b>	<b>A</b>	No head cutting or horizontal deviation observed.	N21R_2016_r_0027: Station_1 19+00: Erosion on left bank upstream of Main street. (Dyke Creek): Repair erosion. (M)
		<b>M</b>	Head cutting and horizontal deviation evident, but is less than 1 foot from the designed grade or cross section.	
		<b>U</b>	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	<b>A</b>	<b>A</b>	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.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no concrete items in the channel.	
6. Tilting, Sliding or Settlement of Concrete Structures <sup>2</sup>	<b>A</b>	<b>A</b>	There are no significant areas of tilting, sliding, or settlement that would endanger the integrity of the structure.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no concrete items in the channel.	
7. Foundation of	<b>A</b>	<b>A</b>	No active erosion, scouring, or bank caving that might endanger the structure's stability.	

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US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-29

Flood Damage Reduction Channels  
Page 3 of 25

# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
Concrete Structures <sup>3</sup>		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no concrete items in the channel.	
8. Slab and Monolith Joints	<b>A</b>	<b>A</b>	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.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no concrete items in the channel.	
9. Flap Gates/ Flap Valves/ Pinch Valves <sup>4</sup>	<b>A</b>	<b>A</b>	Gates/ valves open and close easily with minimal leakage, have no corrosion damage, and have been exercised and lubricated as required.	
		<b>M</b>	Gates/ valves will not fully open or close because of obstructions that can be easily removed, or have minor corrosion damage that requires maintenance.	
		<b>U</b>	Gates/ valves are missing, have been damaged, or have deteriorated to the point that they need to be replaced.	
		<b>N/A</b>	There are no flap gates.	
10. Riprap Revetments & Banks	<b>U</b>	<b>A</b>	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.	N21R_2016_r_0010: Station_1 32+00: Station_2 35+00: Vegetation in riprap on left bank from 300' downstream to 200' upstream of Drop Structure. (Dyke Creek): Remove vegetation from riprap. (U) N21R_2016_r_0012: Station_1 35+00: Station_2 28+00:
		<b>M</b>	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.	

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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-30

Flood Damage Reduction Channels  
Page 4 of 25



# Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
		<b>U</b>	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.	Trees and unwanted vegetation in riprap on right bank from Broad Street bridge to Drop Structure. (Dyke Creek): Remove unwanted vegetation. (U)
		<b>N/A</b>	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.	N21R_2016_r_0022: Station_1 24+00: Station_2 22+00: Significant unwanted vegetation and trees in riprap on both banks between Railroad bridge and Broad Street bridge. (Dyke Creek): Remove unwanted vegetation. (U) N21R_2016_r_0023: Station_1 22+00: Station_2 18+00: Significant trees and heavy unwanted vegetation in riprap on both banks between Main Street bridge and Railroad bridge. (Dyke Creek): Remove trees and unwanted vegetation. (U) N21R_2016_r_0029: Station_1 17+00: Significant trees and vegetation in riprap on both banks just downstream of Main Street bridge. (Dyke Creek): Remove trees and vegetation from riprap. (U)
11. Revetments other than Riprap	<b>A</b>	<b>A</b>	Existing revetment protection is properly maintained, undamaged, and clearly visible.	
		<b>M</b>	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.	
		<b>U</b>	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.	
		<b>N/A</b>	There are no such revetments protecting this feature of the segment / system.	

<sup>1</sup> If weather and flow conditions allow, inspectors should walk in the channel and probe shoal areas in order to estimate extent of blockage of the cross-sectional area where shoaling is present.

<sup>2</sup> The sponsor should be monitoring any observed movement to verify whether the movement is active or inactive.

<sup>3</sup> Inspectors must have as-built drawings available during the inspection so that the lateral distance to the heel and toe of the floodwalls can be determined in the field.

<sup>4</sup> Proper operation of this item must be demonstrated during the inspection.

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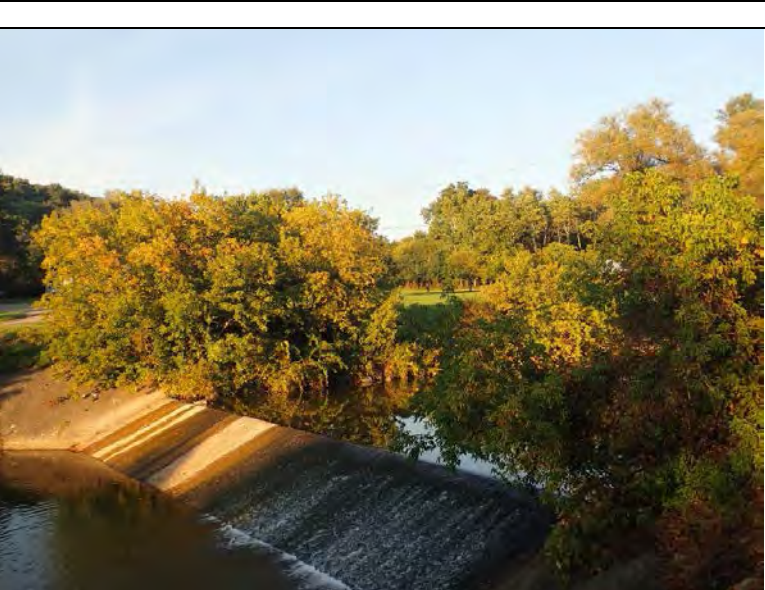
US Army Corps  
of Engineers®

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

Flood Damage Reduction Channels  
Page 5 of 25

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0004 <b>Title:</b> USACE_CELRB_N21R_2016_r_0004_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Log debris in channel on right bank shoal 500' upstream of drop structure. (Dyke Creek); <b>Action:</b> Remove debris.; <b>Station_1:</b> 35+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0013 <b>Title:</b> USACE_CELRB_N21R_2016_r_0013_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Significant vegetation and trees on right bank upstream of drop structure. (Dyke Creek); <b>Action:</b> Remove vegetation and trees.; <b>Station_1:</b> 35+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-32

Flood Damage Reduction Channels  
Page 6 of 25

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0020 <b>Title:</b> USACE_CELRB_N21R_2016_r_0020_1.jpg  <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable;  Remarks: Vegetation on left bank upstream of Broad Street bridge. (Dyke Creek); Action: Remove Vegetation.; Station_1: 24+00; Station_2: 26+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0021 <b>Title:</b> USACE_CELRB_N21R_2016_r_0021_1.jpg  <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable;  Remarks: Debris in channel just upstream of Broad Street bridge. (Dyke Creek); Action: Remove debris.; Station_1: 24+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke


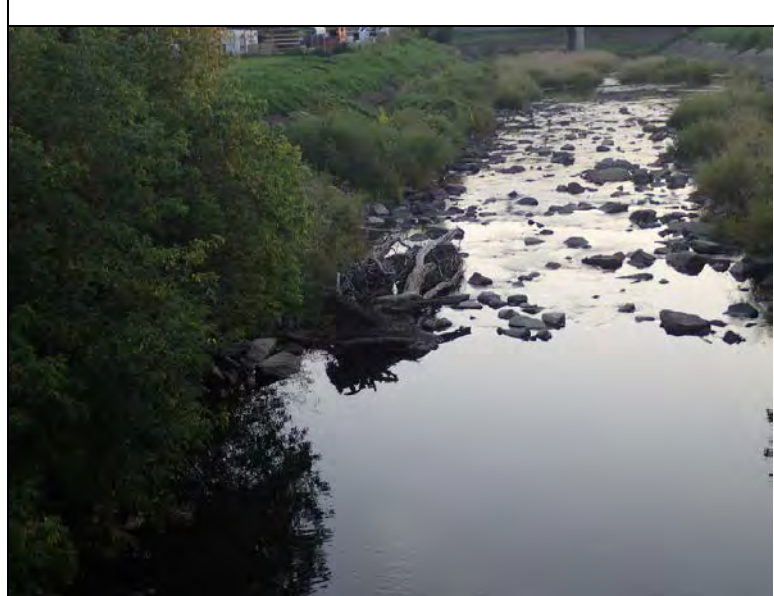
D-33

Flood Damage Reduction Channels  
Page 7 of 25



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0028 <b>Title:</b> USACE_CELRB_N21R_2016_r_0028_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Debris on upstream face of Main Street bridge abutment. (Dyke Creek); <b>Action:</b> Remove debris.; Station_1: 18+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0031 <b>Title:</b> USACE_CELRB_N21R_2016_r_0031_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Tree debris in channel downstream of Main Street bridge. (Dyke Creek); <b>Action:</b> Remove tree debris.; Station_1: 17+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-34

Flood Damage Reduction Channels  
Page 8 of 25

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0045 <b>Title:</b> USACE_CELRB_N21R_2016_r_0045_1.jpg <b>Rated Item:</b> 1. Vegetation and Obstructions <b>Caption:</b> Rating: Unacceptable; Remarks: Significant unwanted vegetation on left bank from Broad Street bridge to Drop Structure. (Dyke Creek); Action: Remove unwanted vegetation.; Station_1: 35+00; Station_2: 24+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0005 <b>Title:</b> USACE_CELRB_N21R_2016_r_0005_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Shoaling (S-14) on right bank from 200' upstream of drop structure to upstream project limit. (Dyke Creek); Action: Remove shoaling.; Station_1: 35+00; Station_2: 35+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke



D-35

Flood Damage Reduction Channels  
Page 9 of 25



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0005 <b>Title:</b> USACE_CELRB_N21R_2016_r_0005_2.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Shoaling (S-14) on right bank from 200' upstream of drop structure to upstream project limit. (Dyke Creek); <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 35+00; <b>Station_2:</b> 35+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0014 <b>Title:</b> USACE_CELRB_N21R_2016_r_0014_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Minor shoal (S-15) in center of channel 100' downstream of drop structure to 200' downstream of drop structure. (Dyke Creek); <b>Action:</b> Remove shoal.; <b>Station_1:</b> 34+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-36

Flood Damage Reduction Channels  
Page 10 of 25



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0014 <b>Title:</b> USACE_CELRB_N21R_2016_r_0014_2.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Minor shoal (S-15) in center of channel 100' downstream of drop structure to 200' downstream of drop structure. (Dyke Creek); <b>Action:</b> Remove shoal.; <b>Station_1:</b> 34+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0017 <b>Title:</b> USACE_CELRB_N21R_2016_r_0017_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Shoaling (S-16) on left bank and in center of channel from drop structure to Broadway Street bridge. (Dyke Creek); <b>Action:</b> Remove shoal.; <b>Station_1:</b> 24+00; <b>Station_2:</b> 33+00</p>



US Army Corps  
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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-37

Flood Damage Reduction Channels  
Page 11 of 25

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0017 <b>Title:</b> USACE_CELRB_N21R_2016_r_0017_2.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Shoaling (S-16) on left bank and in center of channel from drop structure to Broadway Street bridge. (Dyke Creek); <b>Action:</b> Remove shoal.; <b>Station_1:</b> 24+00; <b>Station_2:</b> 33+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0030 <b>Title:</b> USACE_CELRB_N21R_2016_r_0030_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Vegetated shoals (S-17) on concrete sideslopes on both banks and in channel from State Route 417 bridge to Main Street bridge. (Dyke Creek); <b>Action:</b> Remove vegetation from concrete.; <b>Station_1:</b> 12+00; <b>Station_2:</b> 18+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke



D-38

Flood Damage Reduction Channels  
Page 12 of 25



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0043 <b>Title:</b> USACE_CELRB_N21R_2016_r_0043_1.jpg <b>Rated Item:</b> 2. Shoaling (sediment deposition) <b>Caption:</b> Rating: Minimally Acceptable; <b>Remarks:</b> Vegetated shoaling (S-18) on both banks from convergence of Dyke Creek to the State Route 417 bridge.; <b>Action:</b> Remove shoaling.; <b>Station_1:</b> 11+00; <b>Station_2:</b> 2+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0006 <b>Title:</b> USACE_CELRB_N21R_2016_r_0006_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Acceptable; <b>Remarks:</b> 24" CMP drainage inlet on left bank 175' upstream of Drop Structure is not an encroachment, part of existing drainage prior to project. (Dyke Creek); <b>Action:</b> NA; <b>Station_1:</b> 35+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-39

Flood Damage Reduction Channels  
Page 13 of 25



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0007 <b>Title:</b> USACE_CELRB_N21R_2016_r_0007_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Acceptable; Remarks: Drop Structure in acceptable condition. (Dyke Creek); Action: NA; Station_1: 35+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0011 <b>Title:</b> USACE_CELRB_N21R_2016_r_0011_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-50) - Concrete blocks, guardrail, utility pole, guy wire, and dead end sign encroachments on left bank at end of Miller Street just upstream of drop structure. (Dyke Creek); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 35+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-40

Flood Damage Reduction Channels  
Page 14 of 25

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0011 <b>Title:</b> USACE_CELRB_N21R_2016_r_0011_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-50) - Concrete blocks, guardrail, utility pole, guy wire, and dead end sign encroachments on left bank at end of Miller Street just upstream of drop structure. (Dyke Creek); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 35+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0024 <b>Title:</b> USACE_CELRB_N21R_2016_r_0024_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-51) - wood stairs on left bank channel slope just downstream of railroad bridge. (Dyke Creek); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 21+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-41

Flood Damage Reduction Channels  
Page 15 of 25



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels



**Inspect ID:** N21R\_2016\_r\_0025 **Title:** USACE\_CELRB\_N21R\_2016\_r\_0025\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks:  
 Unauthorized Alteration (A-52) - wood stairs and railing encroachments on left bank  
 channel slope just downstream of railroad bridge. (Dyke Creek); Action: Submit Section  
 408 Alteration Request to USACE or remove unauthorized alteration.; Station\_1: 21+00



**Inspect ID:** N21R\_2016\_r\_0026 **Title:** USACE\_CELRB\_N21R\_2016\_r\_0026\_1.jpg  
**Rated Item:** 3. Encroachments **Caption:** Rating: Minimally Acceptable; Remarks:  
 Unauthorized alteration (A-53) - wood stairs left bank channel slope. (Dyke Creek);  
 Action: Submit Section 408 Alteration Request to USACE or remove unauthorized  
 alteration.; Station\_1: 20+00



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Flood Damage Reduction Segment / System  
 Inspection Report  
 Genesee River - Right Bank and Dyke

D-42

Flood Damage Reduction Channels  
 Page 16 of 25



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0026 <b>Title:</b> USACE_CELRB_N21R_2016_r_0026_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized alteration (A-53) - wood stairs left bank channel slope. (Dyke Creek); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 20+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0026 <b>Title:</b> USACE_CELRB_N21R_2016_r_0026_3.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized alteration (A-53) - wood stairs left bank channel slope. (Dyke Creek); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 20+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-43

Flood Damage Reduction Channels  
Page 17 of 25

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0033 <b>Title:</b> USACE_CELRB_N21R_2016_r_0033_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration(A-55) - Heating, electrical, and plumbing yard on Dyke Creek left bank just upstream of State Route 417 bridge. (Dyke Creek); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: 15+00; Station_2: 13+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0042 <b>Title:</b> USACE_CELRB_N21R_2016_r_0042_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Acceptable; Remarks: Approved Alteration - State Route 417 bridge replacement over Dyke Creek.; Action: NA; Station_1: 11+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-44

Flood Damage Reduction Channels  
Page 18 of 25



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0046 <b>Title:</b> USACE_CELRB_N21R_2016_r_0046_1.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-54) - 12 inch metal outfall pipe with riprap apron on left bank channel slope just upstream of Main Street bridge. (Dyke Creek); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: D 20+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0046 <b>Title:</b> USACE_CELRB_N21R_2016_r_0046_2.jpg <b>Rated Item:</b> 3. Encroachments <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Unauthorized Alteration (A-54) - 12 inch metal outfall pipe with riprap apron on left bank channel slope just upstream of Main Street bridge. (Dyke Creek); Action: Submit Section 408 Alteration Request to USACE or remove unauthorized alteration.; Station_1: D 20+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-45

Flood Damage Reduction Channels  
Page 19 of 25



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0027 <b>Title:</b> USACE_CELRB_N21R_2016_r_0027_1.jpg  <b>Rated Item:</b> 4. Erosion <b>Caption:</b> Rating: Minimally Acceptable; Remarks: Erosion on left bank upstream of Main street. (Dyke Creek); Action: Repair erosion.; Station_1: 19+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0010 <b>Title:</b> USACE_CELRB_N21R_2016_r_0010_1.jpg  <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Vegetation in riprap on left bank from 300' downstream to 200' upstream of Drop Structure. (Dyke Creek); Action: Remove vegetation from riprap.; Station_1: 32+00; Station_2: 35+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-46

Flood Damage Reduction Channels  
Page 20 of 25

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0010 <b>Title:</b> USACE_CELRB_N21R_2016_r_0010_2.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Vegetation in riprap on left bank from 300' downstream to 200' upstream of Drop Structure. (Dyke Creek); Action: Remove vegetation from riprap.; Station_1: 32+00; Station_2: 35+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0012 <b>Title:</b> USACE_CELRB_N21R_2016_r_0012_1.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Trees and unwanted vegetation in riprap on right bank from Broad Street bridge to Drop Structure. (Dyke Creek); Action: Remove unwanted vegetation.; Station_1: 35+00; Station_2: 28+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-47

Flood Damage Reduction Channels  
Page 21 of 25



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0012 <b>Title:</b> USACE_CELRB_N21R_2016_r_0012_2.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Trees and unwanted vegetation in riprap on right bank from Broad Street bridge to Drop Structure. (Dyke Creek); Action: Remove unwanted vegetation.; Station_1: 35+00; Station_2: 28+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0012 <b>Title:</b> USACE_CELRB_N21R_2016_r_0012_3.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Trees and unwanted vegetation in riprap on right bank from Broad Street bridge to Drop Structure. (Dyke Creek); Action: Remove unwanted vegetation.; Station_1: 35+00; Station_2: 28+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

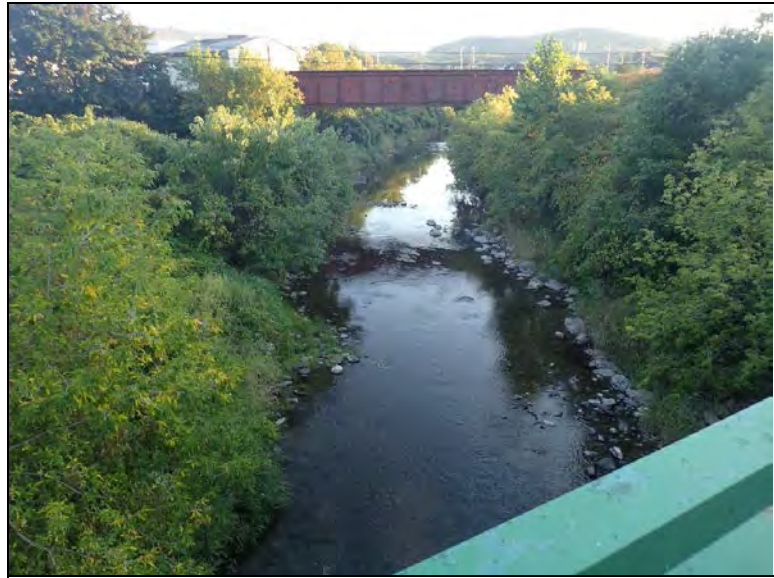
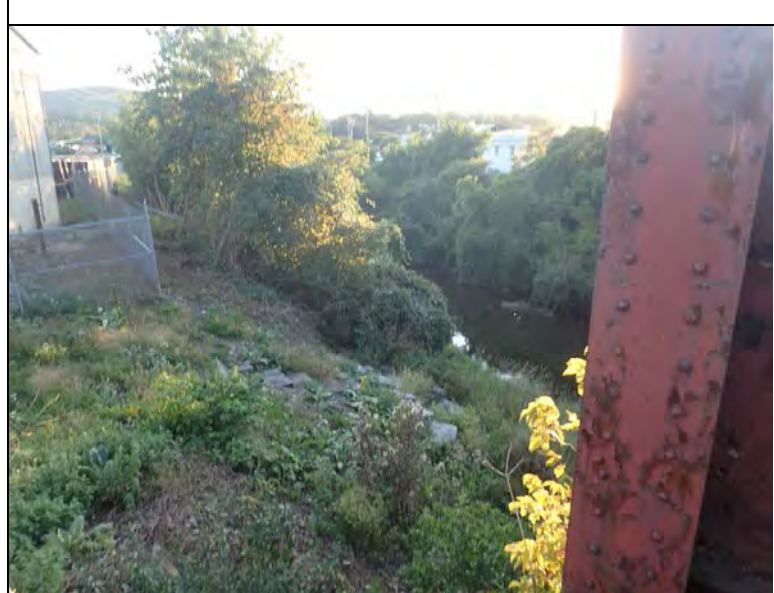
D-48

Flood Damage Reduction Channels  
Page 22 of 25



## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0022 <b>Title:</b> USACE_CELRB_N21R_2016_r_0022_1.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Significant unwanted vegetation and trees in riprap on both banks between Railroad bridge and Broad Street bridge. (Dyke Creek); Action: Remove unwanted vegetation.; Station_1: 24+00; Station_2: 22+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0023 <b>Title:</b> USACE_CELRB_N21R_2016_r_0023_1.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Significant trees and heavy unwanted vegetation in riprap on both banks between Main Street bridge and Railroad bridge. (Dyke Creek); Action: Remove trees and unwanted vegetation.; Station_1: 22+00; Station_2: 18+00</p>



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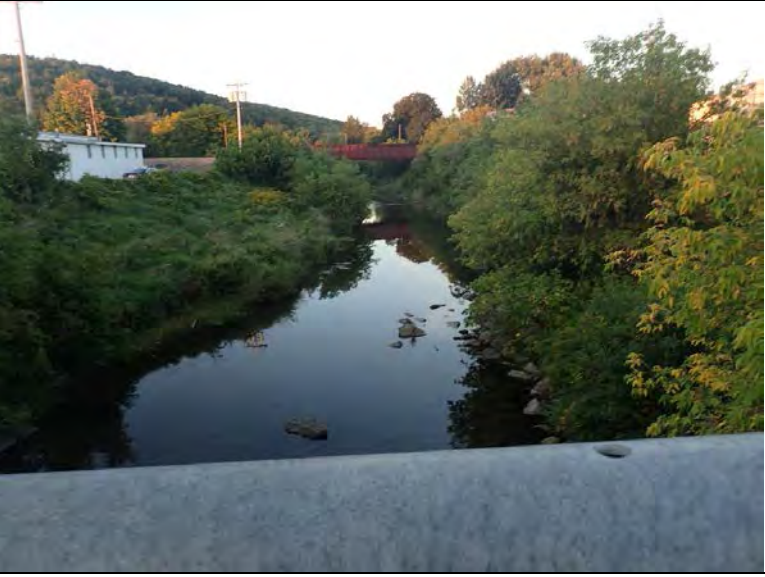

Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-49

Flood Damage Reduction Channels  
Page 23 of 25

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0023 <b>Title:</b> USACE_CELRB_N21R_2016_r_0023_2.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Significant trees and heavy unwanted vegetation in riprap on both banks between Main Street bridge and Railroad bridge. (Dyke Creek); Action: Remove trees and unwanted vegetation.; Station_1: 22+00; Station_2: 18+00</p>
	<p><b>Inspect ID:</b> N21R_2016_r_0029 <b>Title:</b> USACE_CELRB_N21R_2016_r_0029_1.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Significant trees and vegetation in riprap on both banks just downstream of Main Street bridge. (Dyke Creek); Action: Remove trees and vegetation from riprap.; Station_1: 17+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-50

Flood Damage Reduction Channels  
Page 24 of 25

## Flood Damage Reduction Channels

For use during Initial and Continuing Eligibility Inspections of flood damage reduction channels

	<p><b>Inspect ID:</b> N21R_2016_r_0029 <b>Title:</b> USACE_CELRB_N21R_2016_r_0029_2.jpg <b>Rated Item:</b> 10. Riprap Revetments &amp; Banks <b>Caption:</b> Rating: Unacceptable; Remarks: Significant trees and vegetation in riprap on both banks just downstream of Main Street bridge. (Dyke Creek); Action: Remove trees and vegetation from riprap.; Station_1: 17+00</p>



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Flood Damage Reduction Segment / System  
Inspection Report  
Genesee River - Right Bank and Dyke

D-51

Flood Damage Reduction Channels  
Page 25 of 25



Attachment “E” –  
Genesee River - Left Bank and Channel, Wellsville  
Levee Inspection Maps





### Levee Inspection Map

**Genesee River - Left Bank and Channel, Wellsville**

Location: Wellsville, NY  
Year/cycle: 2016 r  
Inspection type: Routine  
Inspected by: USACE - Buffalo  
Inspection date(s): 9/23/16  
Observation ID prefix: USACE\_CELRB\_N21L\_2016\_r  
Map created: 19 September 2017

**Observation Points**

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

**Observation Lines**

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

0 550 1,100 Feet

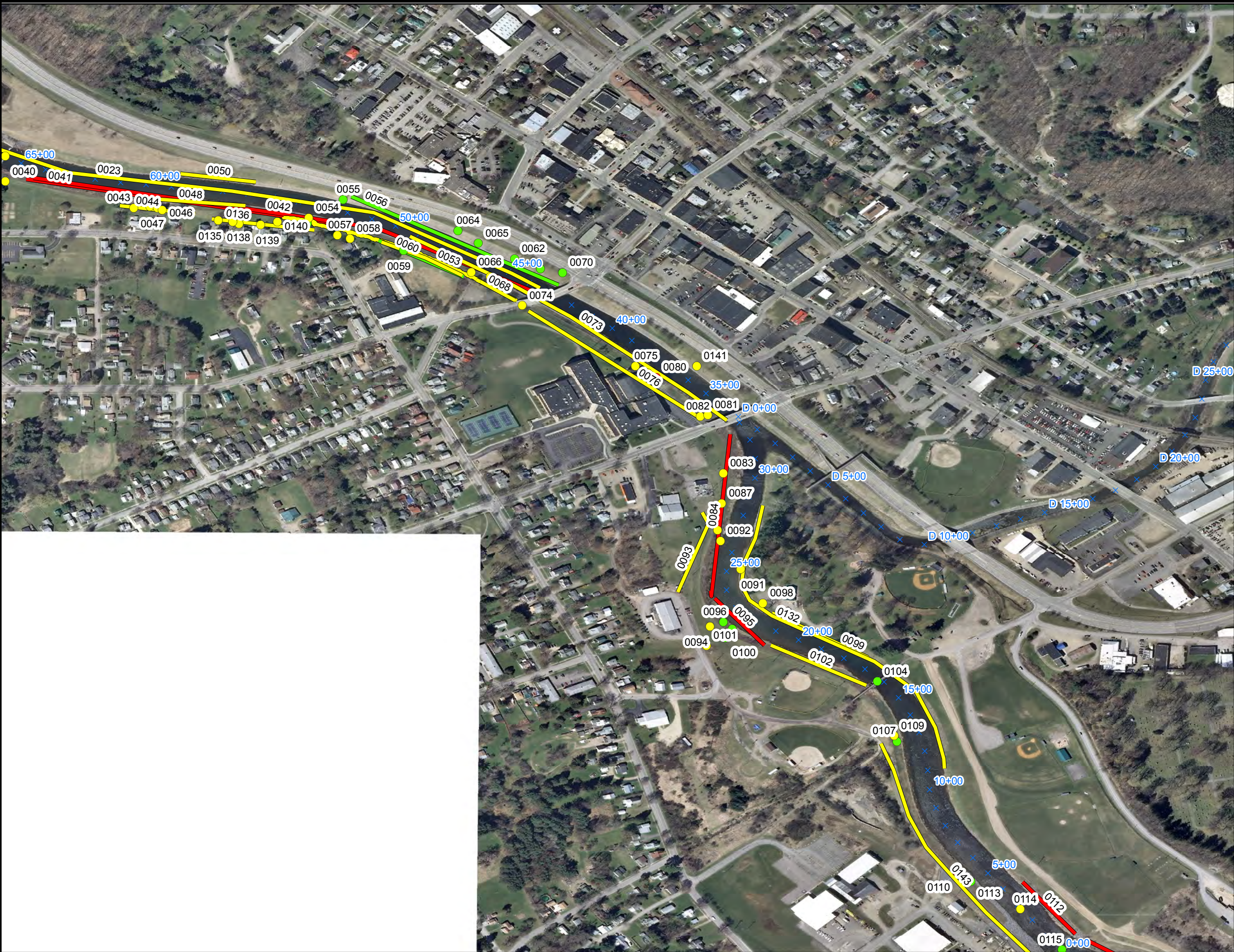
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N

Allegany New York

Potter Pennsylvania





**Levee Inspection Map**

**Genesee River - Left Bank and Channel, Wellsville**

Location: Wellsville, NY  
Year/cycle: 2016 r  
Inspection type: Routine  
Inspected by: USACE - Buffalo  
Inspection date(s): 9/23/16  
Observation ID prefix:  
USACE\_CELRB\_N21L\_2016\_r  
Map created: 19 September 2017

**Observation Points**

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

**Observation Lines**

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

0 550 1,100 Feet



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N



Allegany

New York



Potter

Pennsylvania





### Levee Inspection Map

**Genesee River - Left Bank and Channel, Wellsville**

Location: Wellsville, NY  
Year/cycle: 2016 r  
Inspection type: Routine  
Inspected by: USACE - Buffalo  
Inspection date(s): 9/23/16  
Observation ID prefix: USACE\_CELRB\_N21L\_2016\_r  
Map created: 19 September 2017

**Observation Points**

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

**Observation Lines**

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

0 550 1,100 Feet

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N

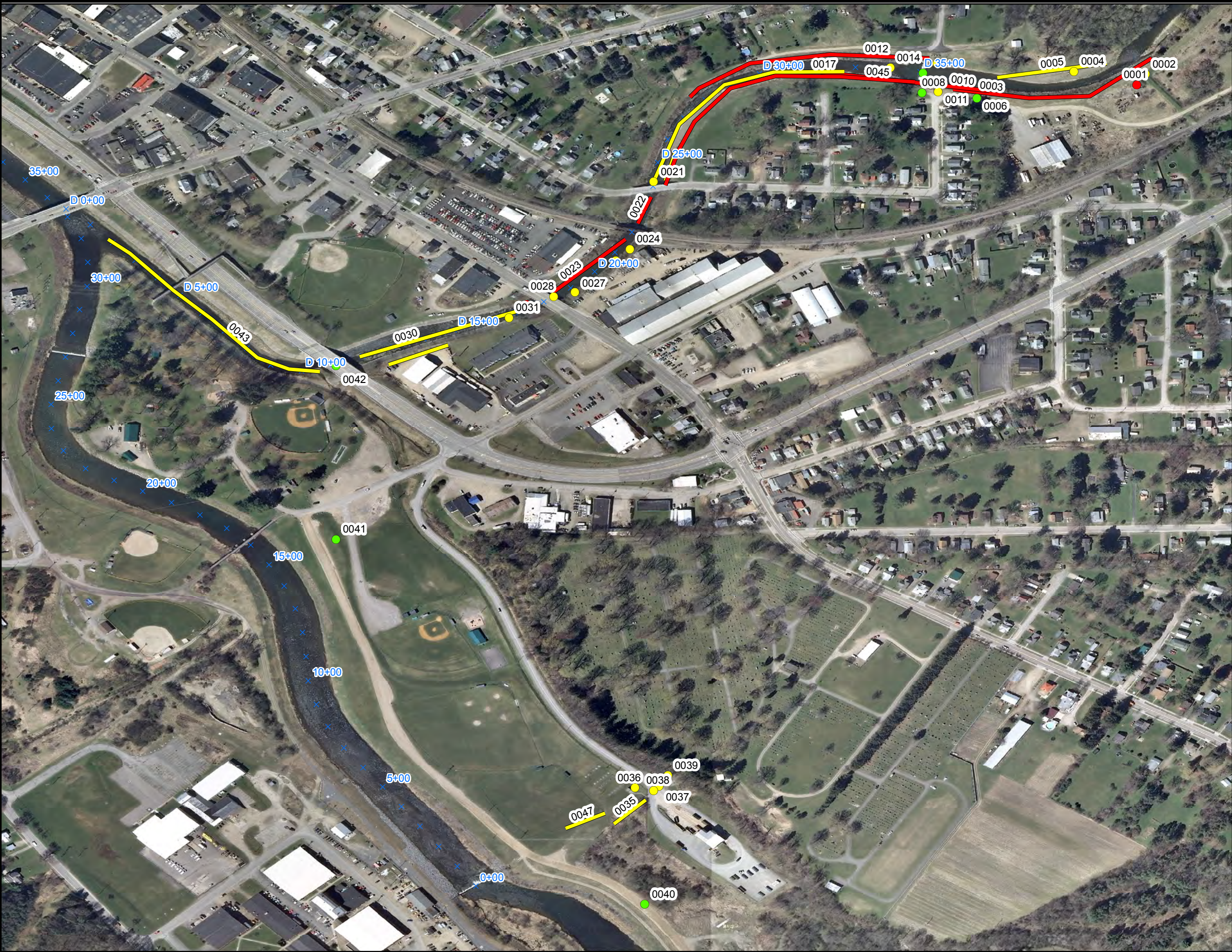
Allegany New York

Potter Pennsylvania



Attachment “F” –  
Genesee River – Right Bank and Dyke Creek, Wellsville  
Levee Inspection Maps





# Levee Inspection Map

## Genesee River - Right Bank and Dyke Creek, Wellsville

Location: Wellsville, NY  
Year/cycle: 2016 r  
Inspection type: Routine  
Inspected by: USACE - Buffalo  
Inspection date(s): 9/23/16  
Observation ID prefix: USACE\_CELRB\_N21R\_2016\_r  
Map created: 19 September 2017

### Observation Points

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

### Observation Lines

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

0 450 900 Feet



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Allegany

New York



Potter

Pennsylvania



Attachment “G” –  
Project Map



Attachment “H” –  
Rehabilitation Program Eligibility Determination  
Checklist



**SUBJECT: FY16 Joint Routine Inspection of Completed Works for the Flood Risk Management Project of  
Genesee River, Wellsville, New York (09/23/2016)**

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

## Appendix H Rehabilitation Program Eligibility Determination Checklist

A	<input type="checkbox"/>	8. Underseepage Relief Wells/Toe Drainage Systems
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
<b>Interior Drainage System</b>		
A	<input type="checkbox"/>	9. Culverts/Discharge Pipes
M	<input checked="" type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
A	<input checked="" type="checkbox"/>	10. Sluice/Slide Gates
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
A	<input checked="" type="checkbox"/>	11. Flap Gates/Flap Valves/Pinch Valves
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
<b>Pump Stations - Not Applicable</b>		
A	<input type="checkbox"/>	17. Intake and Discharge Pipelines
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
A	<input type="checkbox"/>	18. Sluice/Slide Gates
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
A	<input type="checkbox"/>	19. Flap Gates/Flap Valves/Pinch Valves
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
<b>Rehabilitation Program Status</b>		
Active	<input checked="" 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.
<p>Comments: This checklist applies to all three levee systems associated with the Genesee River, Wellsville, NY FRM project (Genesee River - Left Bank, Dyke Creek - Left Bank, &amp; Genesee River, Right Bank). As a result of this FY16 routine inspection, the overall ratings for these systems remain as "UNACCEPTABLE" (U) primarily due to extensive vegetation and channel shoaling. However, the project is "Active" in the USACE Rehabilitation Program since all items on this checklist are rated as either "Acceptable" (A) or "Minimally Acceptable" (M).</p>		

Note: Item numbers listed above refer to their placement in the Flood Damage Reduction System Inspection Report. In order to be eligible, all of the following items must be rated A, M, N/A or Yes.