

**Meeting of the Central Valley Flood Protection Board
March 22, 2013**

Staff Report – Transmittal of Reclamation District 1001’s Letter of Intent for a System-Wide Improvement Framework to the U.S. Army Corps of Engineers

Sacramento and Sutter Counties

1.0 – ITEM

Consider authorizing the Executive Officer to send a letter to the U.S. Army Corps of Engineers (USACE) transmitting a Letter of Intent (LOI) for a System-Wide Improvement Framework (SWIF) prepared by Reclamation District 1001 (RD 1001) for the RD 1001 Bear River/Yankee Slough and Nicolaus/Feather River Levee Systems (Levee Systems) as defined by the USACE’s Draft Periodic Inspection Report dated July 2012.

2.0 – LOCATION

The RD 1001 Levee Systems are located in Sutter and Placer Counties. The Levee Systems are bounded in the north by Bear River and Yankee Slough, in the east by the Cross Canal inflow north, in the south by the Natomas Cross Canal, and in the west by Feather River.

3.0 – AGENCY

RD 1001 is the local maintaining agency of the Levee Systems. The agency has responsibility for the maintenance of the Levee Systems, and plays a key role in planning, coordinating, and implementing flood risk reduction activities within the Levee System. RD 1001 has undertaken significant levee improvements to the Levee Systems, including the reconstruction of 770 feet of levee along the Natomas Cross Canal in 2011. RD 1001 will be taking the lead in developing a SWIF plan in coordination with the Department of Water Resources (DWR) and the Central Valley Flood Protection Board (CVFPB), as well as collaboration with the USACE, environmental and historical resource agencies, and Sutter and Placer Counties.

4.0 – USACE PERIODIC INSPECTION

In February 2012 the USACE performed a Periodic Inspection (PI) of the RD 1001 Levee Systems. PIs are conducted every five years to verify proper operation and maintenance, evaluate operational adequacy and structural stability, identify features to monitor over time, and improve the ability to communicate the overall condition. The Draft PI Report produced by the USACE for RD 1001 rated the Levee Systems to be “Unacceptable.” If the deficiencies noted in the Draft PI Report are not addressed prior to the release of the Final PI Report for the RD 1001 Levee Systems, then both systems will receive an “Inactive” status rating for USACE Public Law (PL) 84-99 Rehabilitation and Inspection Program (RIP) assistance.

RD 1001 does not anticipate the Levee Systems rating to change without long-term solutions or prior to finalization of the PI Report.

5.0 – PURPOSE OF THE LOI AND SWIF

USACE approval of this LOI will allow RD 1001 to move forward with preparation of a SWIF that is intended to meet the policy and public safety objectives of USACE, the State of California, and RD 1001, concurrent with making improvements that address system-wide issues and correct unacceptable inspection items in a prioritized manner to optimize flood risk reduction.

If the SWIF is accepted by the USACE, the RD 1001 Levee Systems will retain eligibility for USACE PL84-99 RIP while the local levee maintainers perform the work described in the SWIF.

6.0 – STAFF RECOMMENDATION

As agreed to in the initial operations and maintenance assurances to the USACE, the CVFPB serves as the non-federal sponsor for all of the State-federal project levees within the jurisdiction of the Sacramento-San Joaquin Drainage District, including the RD 1001 Levee Systems. In this capacity, it is the CVFPB's responsibility to transmit the LOI and subsequent SWIF to the USACE on behalf of the local maintaining agency.

Staff has reviewed the Draft LOI (see Attachment 2) submitted by RD 1001 and finds that it adequately addresses the six requirements for submitting a LOI for a SWIF as described in the USACE's November 29, 2011 Policy for Development and Implementation of System-Wide Improvement Frameworks (see Attachment 3).

In order to submit the LOI as soon as possible, RD 1001 has requested that the CVFPB authorize the Executive Officer to transmit the LOI once finalized and signed. Staff agrees with this request and is recommending that the CVFPB authorize the Executive Officer to finalize a letter of transmittal (see Attachment 1) to the USACE and forward it with the signed LOI to the USACE.

7.0 – ATTACHMENTS

1. Draft Letter of Transmittal to USACE
2. Draft Letter of Intent Prepared by RD 1001
3. Excerpt from USACE Policy for Development and Implementation of System-Wide Improvement Frameworks.

AGENDA ITEM 7A: ATTACHMENT 1

Draft Letter of Transmittal to USACE

STATE OF CALIFORNIA – CALIFORNIA NATURAL RESOURCES AGENCY

EDMUND G. BROWN JR., GOVERNOR

CENTRAL VALLEY FLOOD PROTECTION BOARD

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March 22, 2013

Colonel William J. Leady
District Commander
U.S. Army Corps of Engineers
1325 J Street
Sacramento, California 95814

Subject: Reclamation District 1001 Bear River/Yankee Slough and Nicolaus/Feather River Levee Systems (Levee Systems) - Letter of Intent (LOI) for Developing and Implementing a System-Wide Improvement Framework (SWIF) Plan

Colonel Leady:

The Central Valley Flood Protection Board (CVFPB) wishes to notify USACE by this letter that the Reclamation District 1001 (RD 1001) intends to develop and implement a System-Wide Improvement Framework (SWIF) plan in order for their levee system to retain eligibility for rehabilitation assistance authorized under Public Law 84-99.

The Levee Systems were originally constructed by landowners in the 1800s, and brought to USACE project levee standards by the late 1950s. RD 1001 currently maintains the Levee Systems. Several improvements were implemented over the course of the levee's existence, but due to the less rigorous encroachment permitting standards of the past and other factors, some areas of the levee system received unacceptable ratings in USACE's recent periodic inspection reports.

USACE approval of this LOI will allow RD 1001 to move forward with preparation of a SWIF that is intended to meet the policy and public safety objectives of USACE, the State of California, and RD 1001, concurrent with making improvements that address system-wide issues and correct unacceptable inspection items in a prioritized manner to optimize flood risk reduction.

We respectfully submit this Letter of Intent on behalf of RD 1001 in accordance with the USACE's *Policy for Development and Implementation of System-Wide Improvement Frameworks* and request a two-year extension of eligibility for P.L. 84-99 rehabilitation assistance for the RD 1001 Levee Systems while RD 1001 develops and implements a SWIF. Following approval of this Letter of Intent, RD 1001 will commence efforts to develop a SWIF for USACE approval.

Sincerely,

Jay S. Punia
Executive Officer

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

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JAMES HUDSON
ERIC ROLUFS
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February 15, 2013

Bill Edgar, President
Central Valley Flood Protection Board
3310 El Camino Avenue, Room 151
Sacramento, California 95821

Subject: Reclamation District No. 1001--Letter of Intent for System-Wide Improvement Framework

Dear Mr. Edgar,

As the local maintaining agency, Reclamation District (RD) 1001 is submitting this System-Wide Improvement Framework (SWIF) Letter of Intent (LOI) for the RD 1001 – Bear River and Yankee Slough Levee System and the RD 1001 – Nicolaus, Feather River Levee System. We request that you, as the non-Federal sponsor, forward our LOI to the U.S. Army Corps of Engineers (USACE) Sacramento District.

The RD 1001 SWIF will address correction of unacceptable inspection items by taking a prioritized approach that will optimize flood risk reduction. The items to be addressed in the SWIF will include more complex slope stability, erosion, and/or bank caving issues, encroachment issues, and long term vegetation management issues. The attached supplemental information includes the required information to support this request.

Please do not hesitate to contact me with any questions or concerns regarding this request.

Respectfully,

Andrew Stresser
Secretary/Manager

Enclosure

Cc: Colonel Leady, USACE - Sacramento District
Tom Engler, MBK Engineers

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Reclamation District No. 1001
February 15, 2013

System-Wide Improvement Framework
Letter of Intent

INTRODUCTION

The Central Valley Flood Protection Board (CVFPB) is requesting approval of this System-wide Improvement Framework (SWIF) Letter of Intent (LOI) on behalf of Reclamation District (RD) 1001 for continued rehabilitation eligibility for the *RD 1001 – Bear River and Yankee Slough Levee System* and the *RD 1001 – Nicolaus, Feather River Levee System* under P.L. 84-99 while developing a SWIF. This attachment describes levee system deficiencies that will be addressed under the SWIF.

The U. S. Army Corps of Engineers (USACE) Sacramento District released its draft Periodic Inspection (PI) report in July 2012. In September 2012, RD 1001 submitted a response to the draft PI report which documented corrective actions taken by RD 1001 since the inspection. The Sacramento District is currently reviewing this response and it is anticipated that segment ratings would improve. However, because a system's rating is determined by the lowest rating of one of its segments, RD 1001 does not anticipate that the system ratings will change without long-term solutions or prior to finalization of the PI report. This LOI, and future SWIF, address a plan for correcting the unacceptable items which cannot be corrected within the next two years.

1.0 Levee System and Segment Identification and Description

1.1 Levee System and Segment Identification

The levee systems covered by this LOI, and which will be included in the SWIF, are the RD 1001 – Bear River and Yankee Slough Levee System (NLD System ID: 5205000921), and RD 1001 – Nicolaus, Feather River Levee System (NLD System ID: 5205000922).

The two systems are comprised of a total of seven segments as described in Table 1.1 below. The CVFPB is the non-Federal sponsor for both the systems included in this LOI. RD 1001 is the Local Maintaining Agency (LMA) for both systems.

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System-Wide Improvement Framework

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Table 1.1 Levee System and Segment Identification

Levee System Name and ID Number	NLD Segment Name	NLD Segment ID Number	Latest Inspection Date and Type	Rating
RD 1001 – Bear River and Yankee Slough Levee System NLD System ID: 5205000921	RD 1001 – Nicolaus – Unit 3 east, Bear River left bank above Yankee Slough (NICU)	5205000927	Periodic, February 2012	U
	RD 1001 – Nicolaus – Unit 1, Yankee Slough right bank (NIC1)	5205000921	Periodic, February 2012	U
RD 1001 – Nicolaus, Feather River Levee System NLD System ID: 5205000922	RD 1001 – Nicolaus – Unit 2, Yankee Slough left bank (NIC2)	5205000922	Periodic, February 2012	U
	RD 1001 – Nicolaus – Unit 3, Bear River left bank below Yankee Slough (NIC3)	5205000923	Periodic, February 2012	U
	RD 1001 – Nicolaus – Unit 4, Feather River left bank (NIC4)	5205000924	Periodic, February 2012	U
	RD 1001 – Nicolaus – Unit 5, Natomas Cross Canal right bank (NIC5)	5205000925	Periodic, March 2012	U
	RD 1001 – Nicolaus – Unit 6, Cross Canal inflow north (NIC6)	5205000926	Periodic, March 2012	U

Note: A = Acceptable; M = Minimally Acceptable; U = Unacceptable.

1.2 System and Segment Description

The RD 1001 – Bear River/Yankee Slough and Nicolaus/Feather River levee systems are part of the Sacramento River Flood Control Project (SRFCP). The SRFCP was authorized by the Flood Control Act of 1917 as Public Law 367 of the 64th Congress, and was later modified in 1928, 1937, and 1941. The SRFCP is a Federally authorized, non-Federally operated and maintained, agricultural, industrial, and rural flood protection project. Levees were originally built by local interests in the 1800s and later incorporated into the SRFCP by the late 1950s.

The RD 1001 levee systems include seven segments along the Bear River, Yankee Slough, Feather River, and Natomas Cross Canal, as shown on Figure 1. Table 1.2 provides a description of each segment.

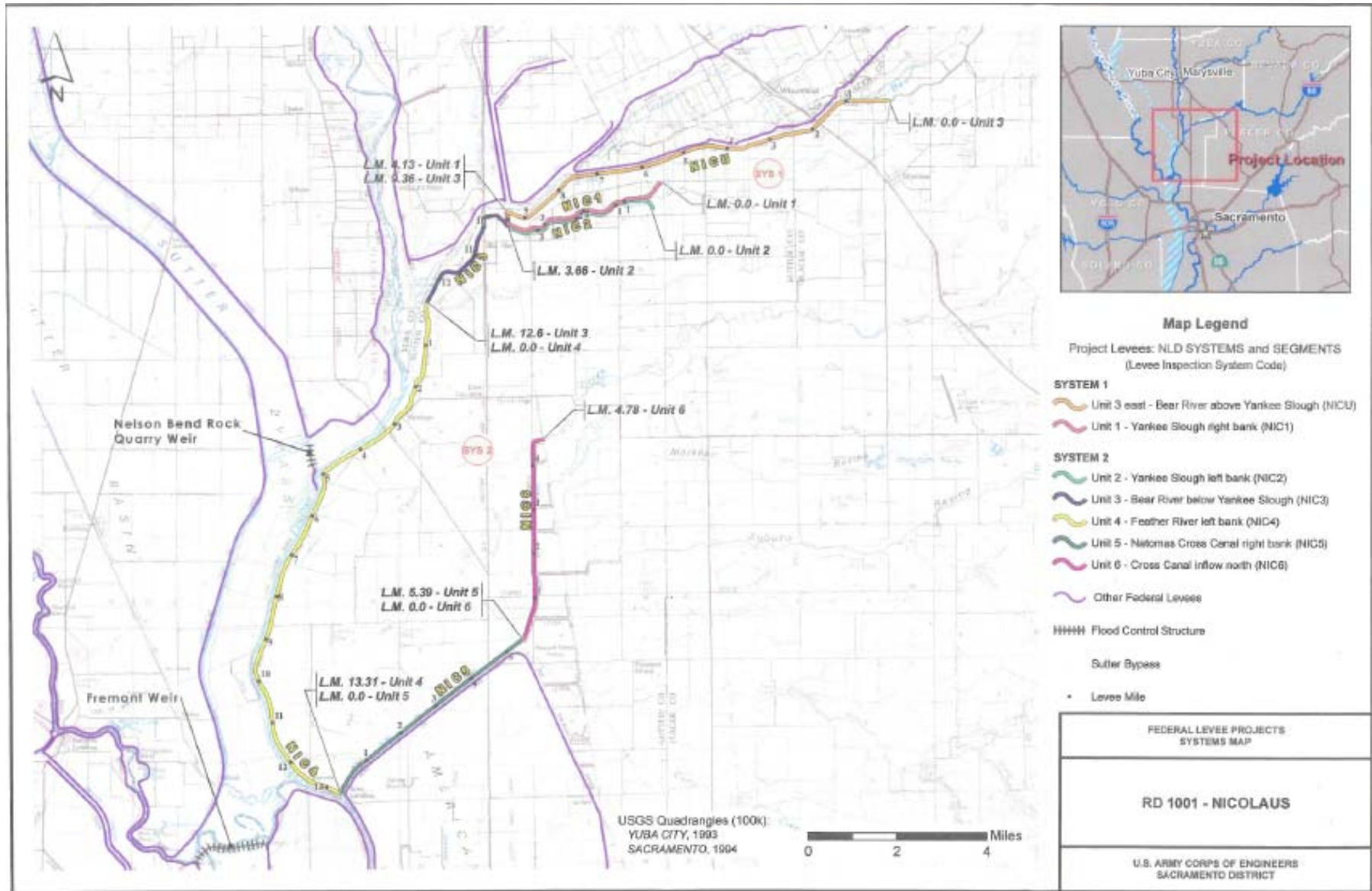
Draft Letter of Intent Prepared by RD 1001

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Figure 1 – RD 1001 Levees



AGENDA ITEM 7A: ATTACHMENT 2

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Table 1.2 Description of Segments							
System	Segment	River/Channel	Description	Levee Length (Miles)	Location (Levee Miles [LM])	Location (River Miles [RM])	USACE O&M Unit
RD 1001 – Bear River and Yankee Slough Levee System NLD System ID: 5205000921	NICU	Bear River	The segment on the left bank of Bear River extends from the confluence of Dry Creek and Bear River east of Wheatland to Camp Far West Road.	9.42	LM 0.00 to 9.42	RM 4.25 to 12.62	141
	NIC1	Yankee Slough	The segment on the right bank of Yankee Slough extends from the confluence of Yankee Slough and Bear River east to the intersection of Bear River Drive and Jackson Road.	4.17	LM 0.00 to 4.17	RM 0.00 to 4.40	141
RD 1001 – Nicolaus, Feather River Levee System NLD System ID: 5205000922	NIC2	Yankee Slough	The segment on the left bank of Yankee Slough extends from the confluence of Yankee Slough and Bear River east to Gallagher Road.	3.66	LM 0.00 to 3.66	RM 0.00 to 4.25	141
	NIC3	Bear River	The segment on the left bank of Bear River extends from the confluence of Feather River and Bear River northeast to the confluence of Bear River and Yankee Slough.	3.18	LM 9.42 to 12.60	RM 0.00 to 4.25	141
	NIC4	Feather River	The segment on the left bank of Feather River extends from the Natomas Cross Canal north to the confluence of Feather River and Bear River.	13.36	LM 0.00 to 13.36	RM 79.353 to 12.25	141
	NIC5	Natomas Cross Canal	The segment on the right (north) bank of the Natomas Cross Canal extends from Feather River northeast to the East Side Canal.	5.44	LM 0.00 to 5.44	RM 0.00 to 5.30	142
	NIC6	Cross Canal	The segment on the right (west) bank of the East Side Canal extends from the Natomas Cross Canal north to the Union Pacific Railroad tracks.	4.80	LM 0.00 to 4.80	RM 0.00 to 4.90	142

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1.3 Construction History

Construction of flood protection in the Sacramento Valley began in the 1800s when landowners built low levees to protect their individual properties. Landowners eventually formed reclamation districts and constructed more substantial levees in the late 1800s. The RD 1001 levee system levees were completed by 1920. After the SRFCP was authorized in 1917, USACE began improving the levees and flood protection systems along the Sacramento River. According to the operation and maintenance (O&M) manuals, levees in the RD 1001 levee systems were brought to USACE project levee standards by the late 1950s. Since the 1950s, improvements have consisted mostly of bank protection with the below exceptions:

- 1964 – NIC2 – reconstruction of various sections.
- 1969 – NIC4 – levee enlargement on the left bank of the Feather River at LM 1.9, 2.2, and 5.75.
- 1986 – NIC5 and NIC6 – emergency levee repairs on the right bank of the Natomas Cross Canal between the Sacramento River and State Highway 99/70.
- 2011 – NIC5 – reconstruction of 770 feet of levee at approximate LM 1.6.

1.4 Population and Industry at Risk

Available data from the National Levee Database and O&M manuals indicate that levees in the RD 1001 levee systems provide protection for approximately 43,395 acres and a population of 1,540, which includes the towns of Rio Oso, Nicolaus, East Nicolaus, Verona, and agricultural areas behind the levees. Residential land use includes sparsely populated use in the agricultural areas and more densely populated areas within the towns. The RD 1001 levee systems protect State Highways 65, 70, and 99, two active Union Pacific Railroad lines, two volunteer fire stations, a Pacific Gas and Electric substation and numerous transmission lines, both the Rio Oso and Nicolaus Post Offices, two grammar schools, the Nicolaus Cemetery, the main drain pumping plant on the Natomas Cross Canal, and several smaller drainage pumping facilities on Bear River and Yankee Slough. There is also significant agricultural infrastructure protected by the levee systems including two rice drying and storage facilities, five walnut processing and storage facilities, a fertilizer and pesticide distributor and warehouse facility, and numerous hay and equipment storage barns and warehouses. Although detailed estimates of property values are not readily available, levee failure could result in significant damage to property and impact the local economy.

2.0 Description of Deficiencies and Justification of SWIF approach

2.1 Description of Deficiencies

The USACE PI report for both systems identified several items rated unacceptable, requiring immediate attention, and which could seriously impair the functioning of the system. These items are herein referred to as critical items. The PI also identified items rated unacceptable, requiring immediate attention, but with which the systems should perform as intended in the next flood event with historic levels of flood-fighting.

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Vegetation Growth - In each inspected segment, vegetation impaired visibility of the levee embankment slopes and may have hidden potential erosion, animal burrows, encroachments, slope stability areas, cracks, depressions/rutting, seepage areas, and other items.

Sod Cover - The inspection team observed rills or gullies deeper than 6 inches associated with surface drainage within the levee embankment in segments NICU of System 0921 and segments NIC3 and NIC4 of System 0922. Surface drainage rills less than 3-inches deep and portions of the levee with less than 50 percent sod cover were observed in segment NIC1 of System 0921 and NIC2 of System 0922.

Encroachments - The inspection team observed encroachments that included houses, landscaping, pools, sheds, fences, pipes and other utilities, debris piles, construction and farming equipment, power poles, culverts and associated appurtenances, excavations into the levee embankment, and privately owned pumps. Permits for many of these encroachments were not provided to the inspection team. These encroachments may inhibit and prevent inspection, operations, maintenance, or emergency operations. Some encroachments could negatively impact the integrity of the levee.

In some cases, the inspection team observed pipes through the levee without positive closure devices (flap gates or sluice gates), or the positive closure device was not functioning properly.

Slope Stability - The inspection team observed indications of slope instability in segments NIC4 and NIC6 of System 0922. A hole was observed above a pipe on the landside embankment of segment NIC4. The hole appeared to be caused by soil displacement from a damaged pipe. Cracking with 2-inch vertical displacement was observed on the landside hinge and embankment of segment NIC6.

Levee slopes, steeper than specified in the O&M manuals, were observed at multiple locations in all segments of Systems 0921 and 0922, except segment NIC6.

Erosion/Bank Caving - The inspection team observed and recorded erosion more than 1-foot deep at the waterside toe or on the levee embankment in segment NICU of System 0921, and segments NIC2, NIC4, and NIC5 of System 0922. Bank caving within 35 feet of the levee embankment was observed in segments NIC3 and NIC6 of System 0922.

Depressions and Rutting - The inspection team observed depressions and rutting deeper than 6 inches on the levee crown, slopes, or within access roads in all segments for both Systems 0921 and 0922, except segment NIC5. Depressions and rutting less than 6-inches deep was observed in segment NIC5.

Cracking - The inspection team observed cracking along the levee crown and slopes in segments NIC4, NIC5, and NIC6 of System 0922. The cracking was deeper than 6 inches, and had a vertical displacement of 2 inches in segment NIC6. The cracking observed in segment NIC4 was less than 6-inches deep, but had a vertical displacement along the crack. The cracking observed in segment NIC5 was less than 6-inches deep, but the length of the crack exceeded the height of the levee.

Animal Control - The inspection team observed animal burrows on both the waterside and the landside slopes in each segment. At some locations, burrowing was observed on both sides of the embankment at the same location. Additionally, portions of the landside and waterside embankment in each segment were obscured by vegetation and prevented inspection. No bait stations were observed and there were no signs of backfilled or grouted burrows in Systems 0921 and 0922 of the RD 1001 levee system.

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Riprap Revetments and Bank Protection - The inspection team observed riprap that was either displaced or hidden by dense vegetation in segment NICU of System 0921 and segments NIC3 and NIC4 of System 0922.

Seepage - The inspection team did not observe active seepage during the PI. Evidence of past seepage was observed at one location on the landside of segment NIC4 of System 0922. The inspection team observed an approximately 300-foot-long and over 8-foot-deep scour hole filled with water approximately 5- to 10 feet from the landside toe that was at roughly the same water surface elevation as the Feather River on the waterside. The scour hole is a historic levee breach/seepage location.

Through seepage caused by a damaged pipe was also observed in segment NIC4. Landside ditches containing water limited the inspection team's ability to inspect for active seepage or evidence of past seepage in segments NIC5 and NIC6 of System 0922. The PI was performed during a period of low flow. These low-flow observations do not imply that seepage would not occur during higher flows.

Table 2.2 Periodic Inspection Segment Ratings by Levee Embankment Item

Deficiency	Bear River and Yankee Slough (-0921)		Nicolaus, Feather River System (-0922)				
	NICU	NIC1	NIC2	NIC3	NIC4	NIC5	NIC6
Item 1, Vegetation Growth	U	U	U	U	U	U	U
Item 2, Sod Cover	U	N/A	N/A	U	U	A	A
Item 3, Encroachments	U	U	U	U	U	U	U
Item 5, Slope Stability	M	M	M	M	U	M	U
Item 6, Erosion/Bank Caving	U	A	U	M	U	U	M
Item 8, Depressions/Rutting	U	U	U	U	U	M	U
Item 9, Cracking	A	A	A	A	U	U	U
Item 10, Animal Control	U	U	U	U	U	U	U
Item 12, Riprap Revetments and Bank Protection	U	N/A	A	U	U	A	N/A
Item 15, Seepage	A	A	A	A	U	M	M

Note: A = Acceptable; M = Minimally Acceptable; U = Unacceptable; N/A = Not Applicable; Bold "**U**" indicates that the unacceptable rating included items rated as unacceptable and likely to prevent the system from performing.

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2.3 Justification of SWIF Approach

RD 1001 will take a worst-first, prioritized approach with the overall goal of correcting outstanding deficiencies to bring the system into compliance with the project Operations and Maintenance Manual in accordance with the assurances provided. This system is a part of the Sacramento River Flood Control Project (SRFCP). The Operations and Maintenance Manual for the SRFCP includes the following language due to conditions peculiar to this area, "Brush and small trees may be retained on the waterward slope where desirable for the prevention of erosion and wave wash. Where practicable, measures shall be taken to retard bank erosion by the planting of willows or other suitable growths on areas riverward of the levees." The November 29, 2011, SWIF policy states that the purpose is to assist levee sponsors in attaining compliance with USACE standards. Under the assurances provided for the SRFCP, RD 1001 will maintain to the standard that USACE has directed in the O&M manual.

The USACE Sacramento District released its draft PI report in July 2012. In September 2012, RD 1001 submitted a response to the draft PI report which documented correction of 57 of the 77 critical items identified in the draft PI report (attached). The USACE Sacramento District is currently reviewing this response, and it is anticipated that segment ratings would improve. However, because a system's rating is determined by the lowest rating of one of its segments, RD 1001 does not anticipate that the system ratings will change without long-term solutions. The remaining 20 critical items and status of corrections are summarized as follows:

- 14 encroachment-related items that require property owner coordination, engineering analysis, and/or enforcement actions by the CVFPB;
- 5 erosion/bank caving items that require engineering analysis and design, permitting, and/or ESA consultation; and
- 1 seepage item that will require design, permitting, and environmental site assessment (ESA) consultation, and is being coordinated with the State for funding through the critical repairs program.

In addition to the critical items identified in the draft PI report, there were also 1,432 unacceptable items which require immediate correction, but the system should perform as intended in the next flood event with historic levels of flood-fighting. These items are summarized by deficiency category in Table 2.3 below. RD 1001 is currently finalizing a plan to bring the levee into compliance with the project Operations and Maintenance Manual on a worst-first, prioritized approach, as part of their routine maintenance activities beginning in the 2013 maintenance season. However, some unacceptable items will require a longer period to correct due to coordination, enforcement, and associated property rights issues related to encroachments; engineering analysis and design for more complex repairs; and permitting for impacts to endangered species due to vegetation removal. A SWIF will outline a plan for correcting those unacceptable items which will require more than two years to correct. The SWIF will also outline corrective action and interim risk reduction plans while holding life safety paramount.

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

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Table 2.3 Non-Critical, Unacceptable Items in -0921 and -0922	
Category	Number of Items
Animal Control	255
Cracking	2
Depressions/ Rutting	83
Encroachments	471
Erosion/ Bank Caving	15
Riprap Revetments & Bank Protection	31
Seepage	1
Slope Stability	1
Sod Cover	12
Vegetation	561
Total	1,432

3.0 Demonstration of Funding Commitments

RD 1001 has an annual O&M budget of over \$620,000, raised by a benefit assessment on properties in the District. In addition, RD 1001 leases RD 1001-owned parcels and collects revenues from a RD 1001-owned borrow pit to supplement collected assessments. This budget is used annually to address many of the on-going items associated with O&M of the levee system including erosion, bank caving, burrowing animals, visibility, access, and vegetation management. This budget also includes funding for the RD Manager, four full-time staff members, an engineering consultant, outside legal counsel, and part-time labor as needed. This team of RD staff and outside consultants are being tasked to prioritize all unacceptable items identified in the inspection reports and will be able to address the majority of the items through routine maintenance activities. The team will also develop a strategy and worst-first prioritization of encroachment, bank caving and erosion, as well as large vegetation issues that will require longer-term coordination and permitting activities. These plans will be developed in the SWIF.

4.0 Interim Risk Reduction Measures

RD 1001 is currently implementing interim risk reduction measures and will prepare an Interim Risk Reduction Measures Plan (IRRMP) as part of the SWIF. The IRRMP will include a combination of emergency response plans, communication and coordination with the property owners and evacuation planners (RD and County), as well as increased monitoring and levee patrols in specific areas of concern. RD 1001 will also continue close coordination with Sutter County emergency managers to improve communication and evacuation planning and update emergency operations to address areas of increased interim risk. Finally, RD 1001 is a participating member of the Yuba-Sutter Flood Fight Coalition. This group consists of various LMA's in Yuba and Sutter Counties that have partnered to establish regional stockpiles of flood fight materials; coordinated communications between agencies and improvements to communication equipment; application for State grant funding to improve emergency operation and evacuation plans, and coordinate those plans between the agencies; to develop regional contracts with equipment and material suppliers to increase reliability during an emergency; and to provide regional manpower assistance to areas in need in time of emergency.

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

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5.0 Interagency Collaboration

In order to address the remaining items and develop the SWIF, RD 1001 will collaborate extensively with other local, State, and Federal agencies. Implementation of the corrective actions will require collaborative planning with some or all of the following:

- USACE for levee standards, design, Section 404 permits for erosion and bank caving repairs, and continuing eligibility inspections.
- CVFPB for real property issues, permitting, compliance, and enforcement of illegal or non-compliant encroachments.
- Federal Emergency Management Agency as a potential mitigation funding partner.
- U.S. Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), California Department of Fish & Wildlife (CDFW) (formerly CDFG), and California State Historic Preservation Act (SHPO) for environmental and historical resource consultation.
- California Department of Water Resources (DWR) for funding, levee standards, coordination with State Plan of Flood Control, regional planning, and continuing eligibility inspections.
- Sutter County for emergency operations and response, land use planning, funding and permitting.
- Yuba Sutter Flood Fight Coalition for emergency operations, response and funding.

6.0 Anticipated Permit and Consultation Requirements

The CVFPB is responsible for continued operation, maintenance, repair and rehabilitation needs on RD 1001 levee systems. RD 1001, as a local maintaining agency, will be required by the CVFPB and the USACE to perform corrective actions to ensure operational adequacy of the levee systems. In general, these activities will consist of routine maintenance activities including mowing, spraying, grazing, burning, baiting, and minor grading operations that do not impact special status species or habitat.

The California Central Valley is home to hundreds of species of wildlife and plant life including several State and Federally threatened and endangered species.

Valley Elderberry Longhorn Beetle (*Desmocerus californicus dimorphus*),
Delta Green Ground Beetle (*Elaphrus viridis*),
Delta Smelt (*Hypomesus transpacificus*),
Green Sturgeon (*Acipenser medirostris*),
Central Valley Steelhead (*Oncorhynchus mykiss*),
Central Valley Spring, Late-Summer, Fall, and Winter-Run Chinook Salmon (*Oncorhynchus tshawytscha*),
California Red-Legged Frog (*Rana aurora*),
California Tiger Salamander (*Ambystoma californiense*),
Giant Garter Snake (*Thamnophis gigas*),
Fairy Shrimp (*Branchinecta lynchi*),
Swainson's Hawk (*Buteo swainsoni*),
Bank Swallow (*Riparia riparia*)

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Reclamation District No. 1001
February 15, 2013

System-Wide Improvement Framework
Letter of Intent

For corrective actions addressing the unacceptable items identified in the PI report that are beyond routine maintenance, including larger grading operations, activities that may impact sensitive species or habitat, or activities that require enforcement actions, the following permits may be required:

- CVFPB encroachment permits.
- USACE Section 404 permits.
- NMFS, USFWS, CDFW Endangered Species Act consultation.
- California Section 1600 Streambed Alteration Agreements.
- California Section 401 Water Quality permit.
- California Environmental Quality Act (CEQA) analysis and documentation.
- National Pollution Discharge Elimination System (NPDES) permits.
- Local grading and drainage permits.

Permitting corrective actions will include coordination and/or consultation with several State and Federal agencies, including some of those mentioned previously in Section 5.0.

In addition to consultation under fish and wildlife protection authorities and other environmental regulations, encroachment permitting, removal, or modification will require significant consultation between RD 1001 and CVFPB as well as individual encroachment owners and landowners. The CVFPB is responsible for enforcing encroachment permit terms and conditions and has a process in place for such enforcement. It includes research of permit and as-built records, informal coordination with easement- and land-owners, noticing, and potentially public hearings. This process can take a significant amount of time and can become litigious. Further, in some cases, encroachments pre-date the establishment of operations and maintenance regulations and/or are found in project as-builts.

7.0 Conclusion

Given the anticipated scope of necessary work, the CVFPB on behalf of the RD 1001 respectfully requests that the RD 1001 – Bear River and Yankee Slough Levee System and the RD 1001 – Nicolaus, Feather River Levee System retain active status in the P.L. 84-99 Program, while the SWIF is being developed. The CVFPB on behalf of RD 1001 asks that this initial request be granted for two years to allow adequate time to develop a successful SWIF.

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001



Reclamation District 1001
1959 Cornelius Ave.
Rio Oso, CA 95674
Office (530) 656-2318 Fax (530) 656-2165

M E M O R A N D U M

DATE: September 28, 2012

TO: Jon P. Tice, Jr., PE
Engineer, Water Resources
Central Valley Flood Protection Board
3310 El Camino Avenue, Room 151
Sacramento, CA 95821

FROM: Andrew Stresser, Secretary/Manager, Reclamation District 1001

SUBJECT: Corps Periodic Inspection Findings for the RD 1001 Levee System – Response to Red Unsatisfactory Findings

The United States Army Corps of Engineers (USACE) performed a detailed periodic inspection of the Reclamation District (RD) 1001 levee system in the early spring of 2012. On August 13, 2012 USACE debriefed the Central Valley Flood protection Board (CVFPB) and RD 1001 on the findings of the Periodic Inspection. The identification of items by USACE in the levee system requiring immediate attention (red unacceptable items) and preventing the RD 1001 levee system from being eligible for Federal assistance (PL 84-99) after a flood event are of serious concern to RD 1001.

In order to respond to the critical items disclosed by USACE, the District examined each item coded red and included the information in the following response to the findings of the Periodic Inspection. The response addresses the critical items identified as red in RD 1001 Levee System. If any critical items are missing in this response, please advise RD 1001 as quickly as possible so additional information can be provided.

It is RD 1001 expectation:

- the following information will satisfy concerns with the red items,
- USACE will upgrade the system rating from “unsatisfactory” to “Marginally Acceptable” and
- RD 1001 levee System will be restored to “Active Status” for PL 84-99 Rehabilitation.

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

To: CVFPB

Response to RD 1001 2012 Draft Periodic Inspection Report

September 28, 2012

Inspection ID NICU-NIC6

Animal Control

RD 1001 Response: Executive Summary part 1.2.9 RD 1001 has an active animal control program which includes baiting squirrels when squirrels are present. To date approximately \$3,645.00 have been expended on bait, "This Program" in 2012 along with numerous man hours as evidence by the attached timesheets and receipts. RD 1001 also maintains a USDA "permit to kill beavers causing crop or property damage" (permit# 1242) attached. To date for the current fiscal year number of beavers taken is 3.

Inspection ID NICU-NIC6

RD 1001 Response: Executive Summary part 1.1.3 RD 1001 Flood Preparedness and Training. RD 1001 staff has been attending flood fight training for over 20 years as conducted by the Department of Water Resources. Training documents for the attendance should be on file at the Flood Operations Branch. Management also annually attends the Pre-Season Flood Coordination Meeting sponsored by the USACE. This year's meeting is scheduled for October 26, 2012 at Whiteaker Hall in Yuba City. Management and staff have also completed training in NIMS and SIMS, attached is certificates of completion.

Inspection ID NICU-NIC6

RD1001 Response: Inspection Findings and Evaluations part 5.3.3, attached is an emergency contact personal list which is part of the Districts system wide Emergency Response Plan.

Inspection ID NICU_2012_p_0108

RD 1001 Response: Currently pump is permitted (Permit No. 4505) and active. Pump, pipes and adjacent structures are maintained by the property owner.

Inspection ID NICU_2012_p_0147

RD 1001 Response: Currently negotiating with property owner for removal and repair of pipe.

Inspection ID NICU_2012_p_0385

RD 1001 Response: Currently management and staff are determining the most effective way to repair erosion/bank caving.

Inspection ID NICU

RD 1001 Response: Remaining red areas identified in the 2012 Draft Periodic Inspection have been identified and corrected as evidence in the attached pictures. Any remaining red areas or those identified as "Unacceptable" (U) will continually be addressed by management and staff. RD 1001 will submit an annual report identifying any corrected areas addressed in the previous year.

Inspection ID NIC1

RD 1001 Response: Remaining red areas identified in the 2012 Draft Periodic Inspection have been identified and corrected as evidence in the attached pictures. Any areas identified as "Unacceptable" (U) will continually be addressed by management and staff. RD 1001 will submit an annual report identifying any corrected areas addressed in the previous year.

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

To: CVFPB

Response to RD 1001 2012 Draft Periodic Inspection Report

September 28, 2012

Inspection ID NIC2_2012_p_0035

RD 1001 Response: Currently negotiating with property owner for removal and repair of the concrete standpipe and pipe through the levee. Pipe is permitted (Permit No. 2281) and may be considered operable.

Inspection ID NIC2_2012_p_0146

RD 1001 Response: District drainage ditch currently in use to reclaim water as part of the District Drainage Facility.

Inspection ID NIC2_2012_p_0218

RD 1001 Response: Currently management and staff are determining the most effective way to repair erosion/bank caving.

Inspection ID NIC2

RD 1001 Response: Remaining red areas identified in the 2012 Draft Periodic Inspection have been identified and corrected as evidence in the attached pictures. Any remaining red areas or those identified as "Unacceptable" (U) will continually be addressed by management and staff. RD 1001 will submit an annual report identifying any corrected areas addressed in the previous year.

Inspection ID NIC3_2012_p_0108

RD 1001 Response: Currently negotiating with property owner for repair of the landside toe cut. In order to properly repair, V-ditch on landside may need to be moved out from the levee toe.

Inspection ID NIC3

RD 1001 Response: Remaining red areas identified in the 2012 Draft Periodic Inspection have been identified and corrected as evidence in the attached pictures. Any remaining red areas or those identified as "Unacceptable" (U) will continually be addressed by management and staff. RD 1001 will submit an annual report identifying any corrected areas addressed in the previous year.

Inspection ID NIC4_2012_p_0058

RD 1001 Response: Currently management and staff are determining the most effective way to repair erosion/bank caving.

Inspection ID NIC4_2012_p_0174

RD 1001 Response: Rectangular swimming pool located approximately 8 feet from landside toe was permitted and built in the 1940's prior to the Memo of Understanding (MOU) of 1957 design profile. Therefore swimming pool existed at the time the levee system was turned over to district.

Inspection ID NIC4_2012_p_0390

RD 1001 Response: Currently working with property owner to repair hole in slope above exposed pipe. To be completed before onset of flood season.

Inspection ID NIC4_2012_p_0443

RD 1001 Response: Currently negotiating with property owner as to best possible method to resolve wooden retaining wall.

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

To: CVFPB

Response to RD 1001 2012 Draft Periodic Inspection Report

September 28, 2012

Inspection ID NIC4_2012_p_0512

RD 1001 Response: Currently negotiating with property owner for removal and repair of the pipe through levee. Pipe is permitted and may be considered operable.

Inspection ID NIC4_2012_p_0549

RD 1001 Response: Currently negotiating with property owner for removal and repair of the pipe through levee. Pipe is permitted (Permit No. 3297) and may be considered operable.

Inspection ID NIC4_2012_p_0557

RD 1001 Response: Scour hole created by the historical levee breach on December 24, 1955. Scour hole remained after levee was repaired and prior to the Memo of Understanding (MOU) of 1957 design profile. Therefore scour hole existed at the time the levee system was turned over to district.

Inspection ID NIC4_2012_p_0565

RD 1001 Response: No picture or caption included as part of Draft Periodic Inspection Report. Management and staff were unclear what was required for correction.

Inspection ID NIC4_2012_p_0582

RD 1001 Response: Currently negotiating with property owner for repair of scour on landside toe.

Inspection ID NIC4

RD 1001 Response: Remaining red areas identified in the 2012 Draft Periodic Inspection have been identified and corrected as evidence in the attached pictures. Any remaining red areas or those identified as "Unacceptable" (U) will continually be addressed by management and staff. RD 1001 will submit an annual report identifying any corrected areas addressed in the previous year.

Inspection ID NIC5_p_0048

RD 1001 Response: Currently management and staff are determining the most effective way to repair erosion/bank caving.

Inspection ID NIC5_p_0166

RD 1001 Response: Currently management and staff are determining the most effective way to repair erosion/bank caving.

Inspection ID NIC5

RD 1001 Response: Remaining red areas identified in the 2012 Draft Periodic Inspection have been identified and corrected as evidence in the attached pictures. Any remaining red areas or those identified as "Unacceptable" (U) will continually be addressed by management and staff. RD 1001 will submit an annual report identifying any corrected areas addressed in the previous year.

Inspection ID NIC6_2012_p_0069

RD 1001 Response: Currently pump is permitted and active (Permit No. 12208). Pump, pipes and adjacent structures are maintained by the property owner.

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

To: CVFPB

Response to RD 1001 2012 Draft Periodic Inspection Report

September 28, 2012

Inspection ID NIC6_2012_p_0087

RD 1001 Response: Currently pump is permitted and active (Permit No. 13153). Pump, pipes and adjacent structures are maintained by the property owner.

Inspection ID NIC6

RD 1001 Response: Remaining red areas identified in the 2012 Draft Periodic Inspection have been identified and corrected as evidence in the attached pictures. Any remaining red areas or those identified as “Unacceptable” (U) will continually be addressed by management and staff. RD 1001 will submit an annual report identifying any corrected areas addressed in the previous year.

RD 1001 hopes that the information provided will be considered acceptable and the red areas identified as completed are removed from the 2012 Final Periodic Inspection Report. Any remaining red areas or those identified as “Unacceptable” (U) will continually be addressed by management and staff. RD 1001 will submit an annual report identifying any corrected areas addressed in the previous year. If there are questions or the need for additional information, please contact Andrew Stresser RD 1001 Secretary/Manager at (530) 656-2318 or rd1001@syix.com

ATTACHMENTS

- A. Time Sheets used as part of the District’s Animal Control Program
- B. Invoices used as part of the District’s Animal Control Program
- C. Copy of the District’s USDA Wildlife Services “Permit to Kill Beaver Causing Crop or Property Damage”
- D. SEMS/NIMS IS-100, IS-200, IS_700 and IS-800 Certificates of Completion for Management and staff
- E. Reclamation District 1001 Emergency Contact List
- F. The District’s response to red areas on levee systems NICU-NIC6 identified in the 2012 Draft Periodic Inspection Report.

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Attachment 'A'

LEVEE LOG WORK SCHEDULE

APRIL 2012

AGENDA ITEM 7A: ATTACHMENT 2 Draft Letter of Intent Prepared by RD 1001

LM	Area	LOCATION	DESCRIPTION OF WORK	DATE TO DO	DATE WORK DONE
	Unit 3 Bear E. Side U6	MATTYS / GUNNERS C. DITCHES	4-5 1 BAG 4-9 1/2 BAG		
	Unit 4 Feather R.	DEAN'S SAMS	4-5 1 BAG 4-9 1/2 BAG		
	Unit 4	TOM'S, BOB AND NICHOLAS RAMP	4-5 1 BAG 4-9 1 BAG		
	Unit 4	BLOTTMANS	4-6 1 BAG 4-9 1/2 BAG		
	Unit 4	TATLES	4-6 1 BAG 4-9 1 BAG		
	Unit 6	DONNIS	4-17 1 BAG 4-20 1/2 BAG		
	Unit 3	BANKS ORCHARD	4-17 1/2 BAG 4-20 3/4 BAG		
	Unit 4 U13 Bear River	SPANGLOPS OLD HOUSE	4-17 1/2 BAG 4-20 1/2 BAG		
	Unit 3 Bear	MATTYS	4-17 1/4 BAG 4-20 1/4 BAG		
	Unit 2 Vankee	TYERS RAMP	4-23 1/2		
	Unit 4	EDS DITCH	4-23 1/2		
	Unit 4	THOMAS	4-23 1/2		
	Unit 4	SPRAWY / HAYMORE	4-23 1/4		
	Unit 4	CONCRETE PILES	4-23 1/4		

Draft Letter of Intent Prepared by RD 1001

LEVEE LOG WORK SCHEDULE

MAY 2012

LM	Area	LOCATION	DESCRIPTION OF WORK	DATE TO DO	DATE WORK DONE
	Unit 4	NICOLAUS	5-2 1 B		
	Unit 4	FIRE TRAIL			
	Unit 4	BERAU	5-7 1/2 B		
	Unit 4	VERONA/PAULMAN'S	5-7 1/2 B		
	Unit 3	BOPRIVER			
	Unit 3	ASPHALT TO RAUG'S	5-7 2 B		
	Unit 4	TATE'S DRIVEWAY TO 1ST OAK	5-11 1 B		
	Unit 4	NICOLAUS	5-11 3/4 B		
	Unit 3	TYLERS RAMP	5-11 1/4 B		
	Unit 2	SIMPSON DITCH	5-24		
		on Yankee Slough			
	Unit 3	HWY 65	4-25 1/2		
	Unit 4	NICOLAUS 99	4-25 1/2		

LEVEE LOG WORK SCHEDULE

June

[illegible]

LEVEE LOG **WORK SCHEDULE**

July

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Attachment 'B'

Draft Letter of Intent Prepared by RD 1001

~~(530) 633-2594~~ FAX (530) 633-9234

Customer

DELIVERY
ORDER

44-214022

ORDER DATE 03/06/12

Salesperson: LOUIE ALBERT Phone (530) 682-6355

VIA	CUSTOMER TRUCK	FOB	SHIPPING POINT	SHIP DATE	03/06/12
RECOMMENDATION NO	NONE	ACCT NO	RD1001-128		
CUSTOMER PO	MB				

SOLD TO	RECLAMATION DISTRICT 1001 1959 CORNELIUS AVENUE RIO OSO, CA 95674	SHIP TO	RECLAMATION DISTRICT 1001 1959 CORNELIUS AVENUE RIO OSO, CA 95674
---------	---	---------	---

QUANTITY	SIZE	ITEM DESCRIPTION	TOTAL UNITS	PRICE/UN	AMOUNT
12	50 LB	P.C.Q. (RAT & MOUSE BAIT) ** PCQ Mfr: BELL, EPA #: 12455-19	600 LB		
					\$1,383.53

Delivered by:

Received by:

Use Permit: CA-51-3101007

A WRITTEN RECOMMENDATION WAS NOT MADE COVERING THE USE OF THESE PRODUCTS.

A SERVICE FEE OF 1.5% WILL ACCRUE ON ACCOUNTS OVER 30 DAYS

**** A MONTHLY STATEMENT OF ACCOUNT ACTIVITY WILL BE SENT ****

WARNING: Product(s) marked ** contain a chemical [or chemicals] known to the State of California to cause cancer and/or birth defects or other reproductive harm. (California Health & Safety Code 25249.6)

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

BEAR RIVER SUPPLY, INC.

218 PLEASANT GROVE ROAD
RIO OSO, CA 95674

(530) 633-2594 FAX (530) 633-9234

SHIPMENT MANIFEST

NUMBER

44-214896

Shipment Date: 04/20/12

VIA CUSTOMER TRUCK

PURCHASE ORDER CD

CORNELIUS

RECLAMATION DISTRICT 1001
1959 CORNELIUS AVENUE
RIO OSO, CA 95674
CPU
Phone: (530) 656-2318

PACKAGES	TYPE	HM DESCRIPTION OF ITEMS	WEIGHT IN LBS
6	BAGS	Vermin exterminators, NOI; other than poison., Product: P.C.Q. **	303
TOTALS			303

\$691.72

NO PLACARDS REQUIRED/OFFERED

WARNING: Product(s) marked ** contain a chemical [or chemicals] known to the State of California to cause cancer and/or birth defects or other reproductive harm. (California Health & Safety Code 25249.6)

Shipper | 218 PLEASANT GROVE ROAD
Address | RIO OSO, CA 95674
| (530) 633-2594 FAX (530) 633-9234

BEAR RIVER SUPPLY, INC.

RECLAMATION DISTRICT 1001

Per:

Per:

AGENDA ITEM 7A: ATTACHMENT 2

BEAR RIVER SUPPLY, INC.

218 PLEASANT GROVE ROAD

RIO OSO, CA 95674

(530) 633-2594 FAX (530) 633-9234

Draft Letter of Intent Prepared by RD 1001

NUMBER

44-215490

Shipment Date: 05/08/12

VIA CUSTOMER TRUCK

PURCHASE ORDER ER

RECLAMATION DISTRICT 1001

1959 CORNELIUS AVENUE

RIO OSO, CA 95674

Phone: (530) 656-2318

PACKAGES	TYPE	HM	DESCRIPTION OF ITEMS	WEIGHT IN LBS
4	BOXS		Compounds, tree or weed killing, NOI, other than poison; having a density of 20 pounds or greater per cubic foot. (NOT DOT REGULATED BY HIGHWAY TRANSPORTATION), Products: CLETHODIM 2 EC **, ALECTO 41S **	179
4	BOXS		Adhesives, adjuvants, spreaders or stickers, sprayable product. (NOT DOT REGULATED BY HIGHWAY TRANSPORTATION), Products: IAP PRO C.O.C., IAP PRO AMS PLUS	144
6	BAGS		Vermin exterminators, NOI; other than poison., Product: P.C.Q. **	303
				<i>\$645.00</i>

14 < PIECES

TOTALS

LBS >

626

NO PLACARDS REQUIRED/OFFERED

WARNING: Product(s) marked ** contain a chemical [or chemicals] known to the State of California to cause cancer and/or birth defects or other reproductive harm. (California Health & Safety Code 25249.6)

Shipper | 218 PLEASANT GROVE ROAD

Address | RIO OSO, CA 95674

| (530) 633-2594 FAX (530) 633-9234

BEAR RIVER SUPPLY, INC.

RECLAMATION DISTRICT 1001

Per:

Per:

Draft Letter of Intent Prepared by RD 1001

Shipment Date: 06/28/12

VIA CUSTOMER TRUCK

PURCHASE ORDER CD

УЗНА-УЗНА НО

RECLAMATION DISTRICT 1001
1959 CORNELIUS AVENUE
RIOOSO, CA 95674
CPU
Phone: (530) 656-2318

PACKAGES	TYPE	HM	DESCRIPTION OF ITEMS	WEIGHT IN LBS
6	BAGS		Vermine exterminators, NOI; other than poison., Product: P.C.Q. **	303
6	< PIECES		TOTALS	303

\$691.76

\$691.76

NO PLACARDS REQUIRED/OFFERED

WARNING: Product(s) marked ** contain a chemical [or chemicals] known to the State of California to cause cancer and/or birth defects or other reproductive harm. (California Health & Safety Code 25249.6)

Shipper | 218 PLEASANT GROVE ROAD
Address | RIOOSO, CA 95674
| (530) 633-2594 FAX (530) 633-9234

BEAR RIVER SUPPLY, INC.

RECLAMATION DISTRICT 1001

Per:

Per:

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

BEAR RIVER SUPPLY, INC.

218 PLEASANT GROVE ROAD
RIO OSO, CA 95674

(530) 633-2594 FAX (530) 633-9234

EQUIPMENT MANIFEST

NUMBER

44-219780

Shipment Date: 09/04/12

VIA CUSTOMER TRUCK

PURCHASE ORDER MB

RECLAMATION DISTRICT 1001

1959 CORNELIUS AVENUE
RIO OSO, CA 95674

Phone: (530) 656-2318

PACKAGES	TYPE	HM	DESCRIPTION OF ITEMS	WEIGHT IN LBS
2	BAGS		Vermin exterminators, NOI; other than poison., Product: P.C.Q. **	101
<p style="text-align: right;">\$ 232.02</p>				
2	< PIECES		TOTALS	LBS > 101

NO PLACARDS REQUIRED/OFFERED

WARNING: Product(s) marked ** contain a chemical [or chemicals] known to the State of California to cause cancer and/or birth defects or other reproductive harm. (California Health & Safety Code 25249.6)

Shipper | 218 PLEASANT GROVE ROAD

Address | RIO OSO, CA 95674

| (530) 633-2594 FAX (530) 633-9234

BEAR RIVER SUPPLY, INC.

RECLAMATION DISTRICT 1001

Per:

Per:

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Attachment 'C'

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

PERMIT # 1242
PAPER PERMIT # N/A

Resources Agency of California Department of Fish and Game

PERMIT TO KILL BEAVER
CAUSING CROP OR PROPERTY DAMAGE

5/10/2012 (DATE)

Under the provisions of Sections 401 and 402, Title 14, CCR,

Reclamation District 1001	1959 Cornelius Ave	
(NAME)	(ADDRESS)	
Rio Oso	95674	is authorized to kill
(CITY)	(ZIP)	(NUMBER)
		Beaver
		(SPECIES)

Location of Property 1959 Cornelius Ave. Rio Oso

County: Sutter Acres: _____

Property or Crops being damaged: Other Damage (Levee damage)

Trespass: This permit does not authorize trespass for any reason onto any other property.

Authorized method of take: Any legal method of take If traps used, trap no: _____
REQUIRED; SEE SECTION 465.5 (f)(1)

Steel-jawed leg-hold traps, padded or otherwise, are *prohibited*. Landowner may use: conibear traps; snares; cage and box traps; nets; suitcase-type live beaver traps; and common rat and mouse traps.

Persons permitted to take animals under this permit in addition to the permit holder:

- USDA Wildlife Services

Persons prohibited from taking animals under this permit: No person may take animals pursuant to this permit if they have been convicted of a violation related to the take or possession of game or furbearing mammals in the past 12 months or if they are on probation and may not hunt or possess a firearm as part of the terms of probation.

Disposition of the carcass(es) shall be as follows: Disposed of by Permittee at site
Briefly describe the measures taken to prevent damage *prior* to issuance of this permit:
Prior DP.

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Attachment 'D'



Certificate of Completion

In recognition of demonstrated proficiency in and completion of the
SEMS/NIMS IS-100, IS-200, IS-700 and IS-800 (8 hour Combined Course)

This certificate is presented to

David Williams

this 9th day of August 2012

Adam Pharris
Adam Pharris, Police Officer
YCCDPD, Course Manager

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Attachment 'E'

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

RECLAMATION DISTRICT 1001 EMERGENCY CONTACT LIST

1959 Cornelius Avenue

Rio Oso, CA 95674

rd1001@syix.com

OFFICE (530) 656-2318 or (530) 633-2586

FAX (530) 656-2165 PUMPHOUSE (530)656-2379

(530) AREA CODE UNLESS OTHERWISE NOTED

EMPLOYEE LIST

	<u>HOME #</u>	<u>CELL #</u>	<u>EMAIL</u>
DREW STRESSER, MANAGER		916-335-6359	rd1001@syix.com
DIANE FALES	656-2308	632-5258	
STEVE SCHWALL,	656-2505	632-5254	
DAVE WILLIAMS	656-2379	632-5255	
CHUCK BAKER	749-2732	632-5222	
JIM FLYNN	315-0036	632-5257	

BOARD MEMBERS

	<u>HOME#</u>	<u>OFFICE#</u>	<u>CELL #</u>
BOB. SCHEIBER, PRESIDENT	656-2422		755-8905
BUZZ OSTERLI, VICE PRES.	916-655-3908	656-2557	401-0409
JIM HUDSON, TRUSTEE	633-4474	682-8002	
ERIC ROLUFS, TRUSTEE	656-2357		218-3657
JOHN TARESH, TRUSTEE	633-2554		747-6815

DEPT OF WATER RESOURCES

ERIC KOCH, ACTING CHIEF- FLOOD MANAGEMENT	916-574-0611	916-216-8633
RICK BURNETT, FLOOD FIGHT SPECIALIST	916-952-8447	916-574-1203
CLAY THOMAS, INSPECTOR	916-575-1208	916-214-3532

COUNTY OF SUTTER

JOHN DEBEAUX, EMERGENCY OPERATIONS MANAGER	301-9819	822-7400	682-7902	jedebeaux@co.sutter.ca.us
E. NICOLAUS FIRE DEPT.	911			
SHERIFF DISPATCH	822-7307	(NON-EMERGENCY)		
JAMES GALLAGHER, SUPERVISOR	822-7106	713-7505		

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Attachment 'F'

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

NICU Bear River Levee

Draft Letter of Intent Prepared by RD 1001

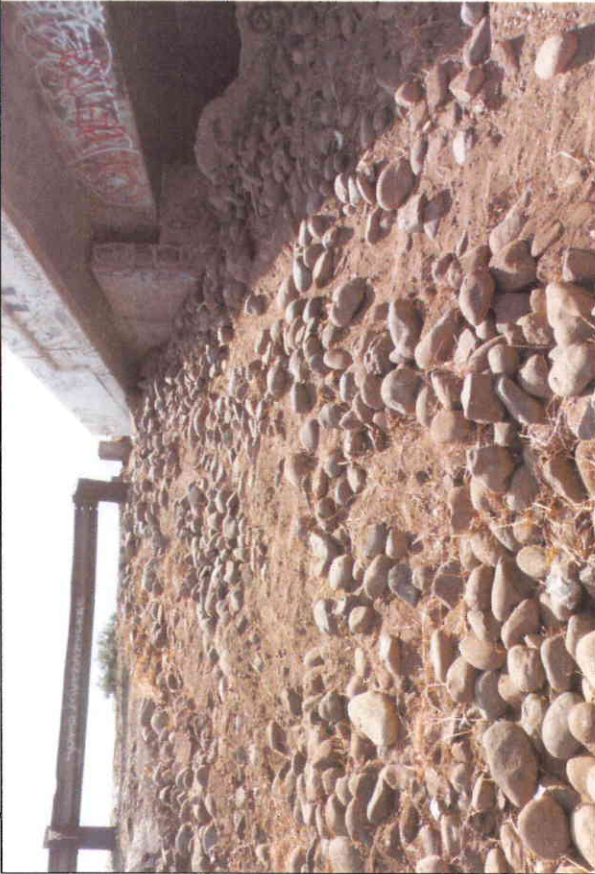
Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NICU Bear River Levee

Sod Cover



**September 2012: Surface runoff erosion repaired
Levee Mile: 6.51**



**Inspect ID: NICU_2012_p_0351 Title: USACE_CESPK_NICU_2012_p_0351_1.jpg
Rated Item: 2. Sod Cover Caption: Surface runoff erosion at bridge abutment on upper half of waterside slope. 24 inches wide and 12 to 24 inches deep. (U)**



Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NICU Bear River Levee

Encroachments

	<p>Date Unknown: Currently pump is permitted and active. Pump, pipes and adjacent structures are maintained by the property owner. Levee Mile: 1.86</p>
	<p>Inspect ID: NICU_2012_p_0108 Title: USACE_CESPK_NICU_2012_p_0108_5.jpg Rated Item: 3. Encroachments Caption: 30 inch metal pipe through levee with well at waterside toe. Metal walkway from crown, and slide gate on waterside. Fenced pumping structure with service pole at landside toe (Permit No. 4505). Inspection records not available. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

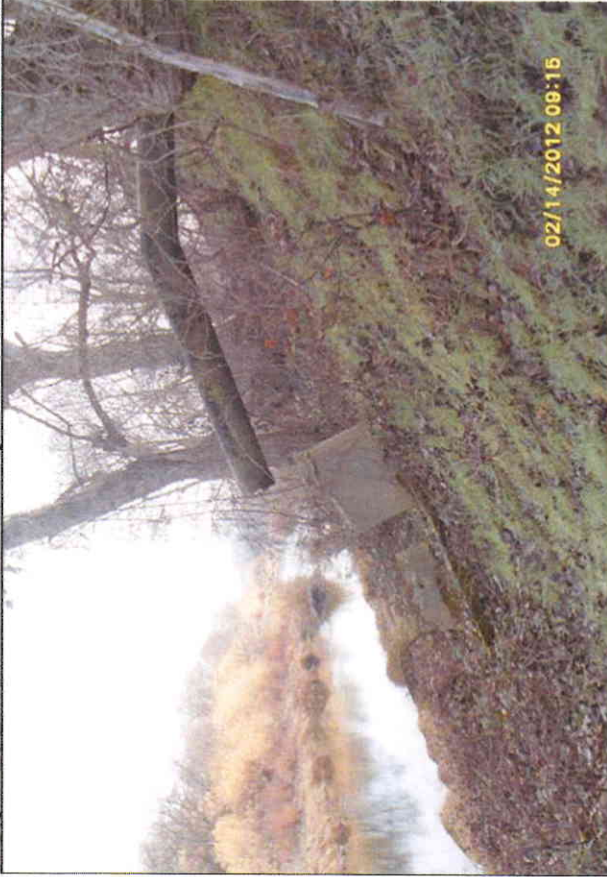
Photos

Reclamation District 1001

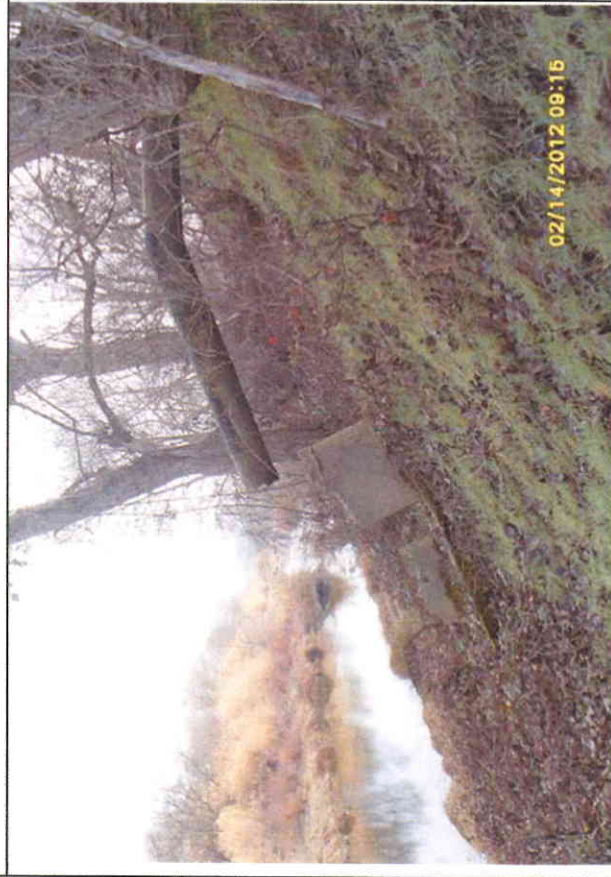
Response to 2012 Draft Periodic Inspection

NICU Bear River Levee

Encroachments



September 28, 2012: Currently negotiating with property owner for removal and repair of pipe.
Levee Mile: 2.61



Inspect ID: NICU_2012_p_0147 **Title:** USACE_CESPK_NICU_2012_p_0147_1.jpg
Rated Item: 3. Encroachments **Caption:** 18 inch pipe through levee. Discharge pipe on waterside, no closure device. Concrete riser structure with tree growing out of it on landside. Inspection records not available. (U)

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NICU Bear River Levee

Encroachments



September 2012: Waterside toe cut removed
Levee Mile: 2.94



Inspect ID: NICU_2012_p_0165 Title: USACE_CESPK_NICU_2012_p_0165_1.jpg
Rated Item: 3. Encroachments Caption: Waterside toe cut, 2 feet deep, 200 feet long.
Likely due to maintenance vehicles. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NICU Bear River Levee

Encroachments



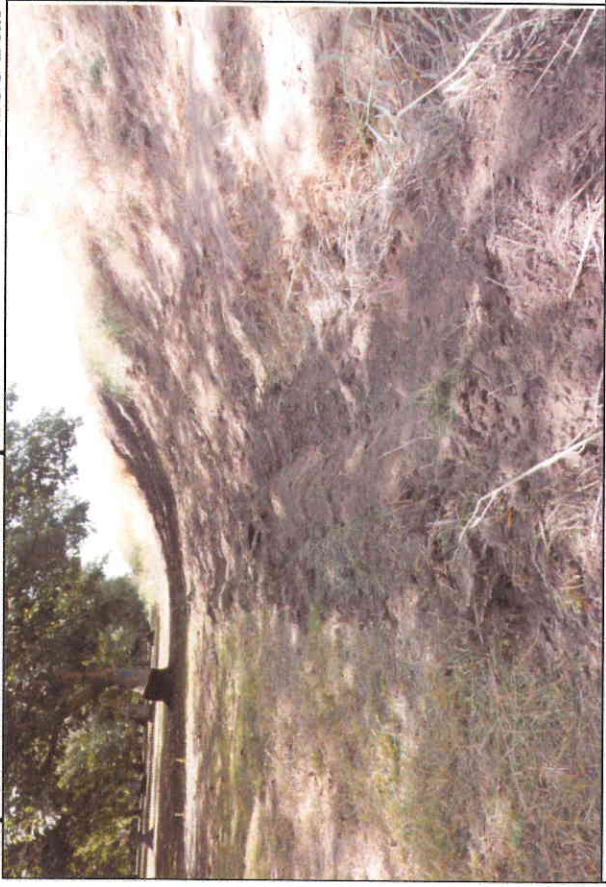

September 2012: Waterside toe cut removed
Levee Mile: 3.46



Inspect ID: NICU_2012_p_0188 **Title:** USACE_CESPK_NICU_2012_p_0188_1.jpg
Rated Item: 3. Encroachments **Caption:** Waterside toe cut, 24 inches deep, 150 feet long. Likely due to maintenance vehicles. (U)

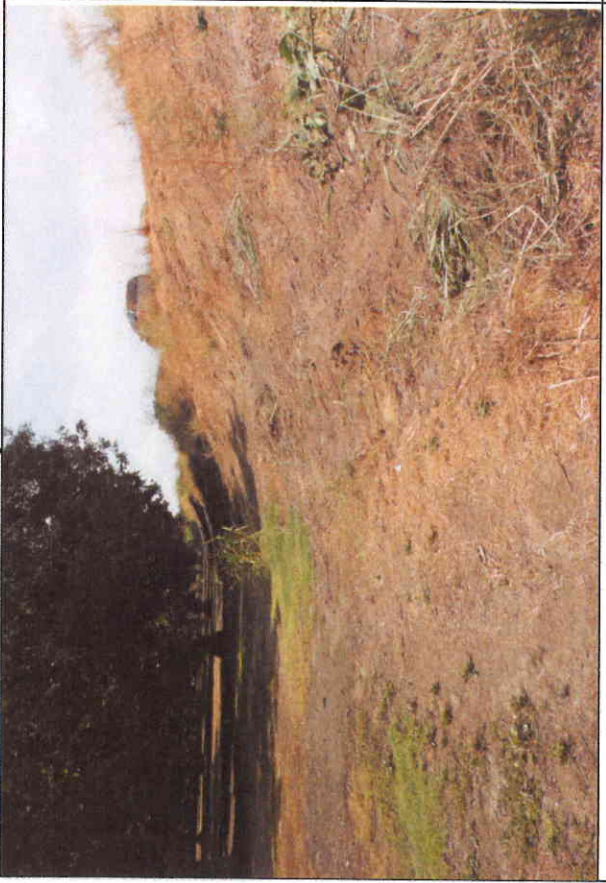

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NICU Bear River Levee	Encroachments
		<p>September 2012: Landside toe cut removed Levee Mile: 5.88</p> <p>Inspect ID: NICU_2012_p_0310 Title: USACE_CESPK_NICU_2012_p_0310_1.jpg Rated Item: 3. Encroachments Caption: Landside toe cut, up to 30 inches deep, 75 feet long. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NICU Bear River Levee	Encroachments
		<p>September 2012: Landside toe cut removed Levee Mile: 5.98</p> <p>Inspect ID: NICU_2012_p_0318 Title: USACE_CESPK_NICU_2012_p_0318_1.jpg Rated Item: 3. Encroachments Caption: Start point. Landside toe cut, 36 inches deep, about 25 feet long. End point is 327. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NICU Bear River Levee

Encroachments



September 2012: Waterside toe cut removed
Levee Mile: 6.04



Inspect ID: NICU_2012_p_0324 **Title:** USACE_CESPK_NICU_2012_p_0324_1.jpg
Rated Item: 3. Encroachments **Caption:** Waterside toe cut, 2 feet deep, 100 feet long.
Likely due to maintenance vehicles. (U)

AGENDA ITEM 7A: ATTACHMENT 2 **Draft Letter of Intent Prepared by RD 1001**

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NICU Bear River Levee

Encroachments



September 2012: Landside toe cut removed
Levee Mile: 6.48



Inspect ID: NICU_2012_p_0347 **Title:** USACE_CESPK_NICU_2012_p_0347_1.jpg
Rated Item: 3. Encroachments **Caption:** Landside toe cut, 24 inches deep, about 100 to 150 feet long. (U)

AGENDA ITEM 7A: ATTACHMENT 2 **Draft Letter of Intent Prepared by RD 1001**



Photos

Reclamation District 1001


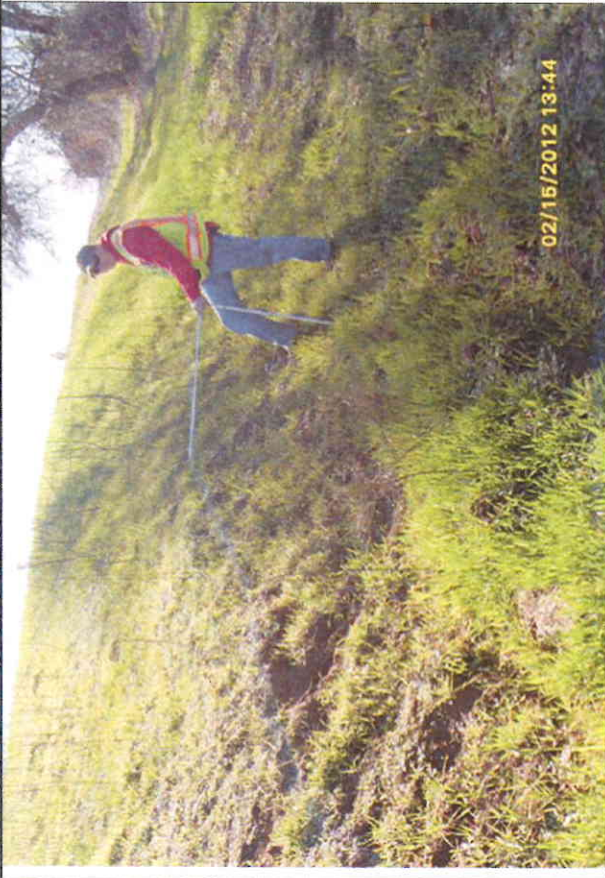
Response to 2012 Draft Periodic Inspection

NICU Bear River Levee



Encroachments

	<p>September 2012: Landside toe cut removed Levee Mile: 7.50</p>
	<p>Inspect ID: NICU_2012_p_0388 Title: USACE_CESPK_NICU_2012_p_0388_1.jpg Rated Item: 3. Encroachments Caption: Landside toe cut, up to 24 inches deep, 100 feet long. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NICU Bear River Levee	Encroachments
		September 2012: Waterside toe cut removed Levee Mile: 7.74	
			Inspect ID: NICU_2012_p_0398 Title: USACE_CESPK_NICU_2012_p_0398_1.jpg Rated Item: 3. Encroachments Caption: Waterside toe cut, 48 inches deep, 20 feet long. Likely due to maintenance vehicles. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection			NICU Bear River Levee	Erosion/Bank Caving
				September 28, 2012: Currently management and staff are determining the most effective way to repair erosion/bank caving. Levee Mile: 7.42
				Inspect ID: NICU_2012_p_0385 Title: USACE_CESPK_NICU_2012_p_0385_2.jpg Rated Item: 6. Erosion/ Bank Caving Caption: Line of erosion/bank caving 20 feet from waterside toe. Erosion up to 25 feet deep with near vertical face, appears to cut into projected prism. (U)

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NICU Bear River Levee

Depressions/Rutting



August 2012: Hole at waterside toe repaired
Levee Mile: 7.12





Inspect ID: NICU_2012_p_0375 Title: USACE_CESPK_NICU_2012_p_0375_1.jpg
Rated Item: 8. Depressions/ Rutting Caption: Hole at waterside toe, 3 feet diameter, 3 feet deep. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001



NIC1 North Yankee Slough

AGENDA ITEM 7A: ATTACHMENT 2




Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC1 North Levee Yankee Slough	Encroachments
	<p>September 2012: Landside toe cut removed Levee Mile: 2.74</p>	<p>Inspect ID: NIC1_2012_p_0076 Title: USACE_CESPK_NIC1_2012_p_0076_1.jpg Rated Item: 3. Encroachments Caption: Landside toe cut, 24 inches tall and 30 feet long. (U)</p>
	<p>02/16/2012 10:31</p>	

AGENDA ITEM 7A: ATTACHMENT 2 **Draft Letter of Intent Prepared by RD 1001**

<p>Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection</p>	<p>NIC1 North Levee Yankee Slough</p>	<p>Encroachments</p>
		<p>September 2012: Landside toe cut removed Levee Mile: .72</p>
		<p>Inspect ID: NIC1_2012_p_0186 Title: USACE_CESPK_NIC1_2012_p_0186_2.jpg Rated Item: 3. Encroachments Caption: Start point. Landside toe cut, 12 to 36 inches tall. End point is (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC1 North Levee Yankee Slough	Encroachments
		<p>September 2012: Landside toe cut removed Levee Mile: .23</p>
		<p>Inspect ID: NIC1_2012_p_0220 Title: USACE_CESPK_NIC1_2012_p_0220_2.jpg Rated Item: 3, Encroachments Caption: Two locations of toe cut due to farming activity, 20 to 36 inch tall, 20 feet long and spaced 40 feet apart. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

NIC2 South Yankee Slough Levee

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

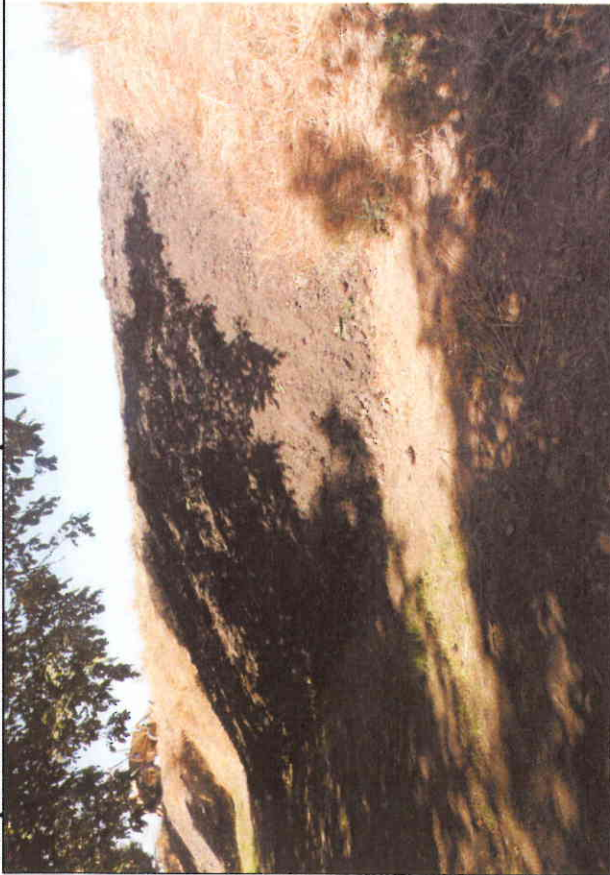
Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC2 South Yankee Slough Levee

Encroachments

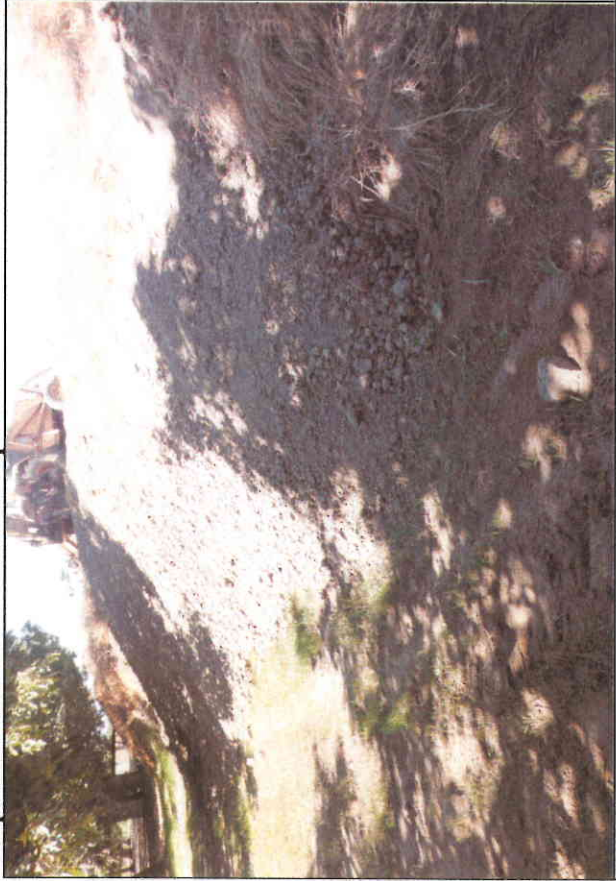



September 2012: Landside toe cut removed. 10 cubic yards of dirt added to levee.
Levee Mile: .43



Inspect ID: NIC2_2012_p_0031 Title: USACE_CESPK_NIC2_2012_p_0031_1.jpg
Rated Item: 3. Encroachments Caption: Landside toe cut, up to 4 feet tall, 20 feet long.
(U)

AGENDA ITEM 7A: ATTACHMENT 2 **Draft Letter of Intent Prepared by RD 1001**

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC2 South Yankee Slough Levee	Encroachments
		<p>September 2012: Landside toe cut removed. 10 cubic yards of dirt added to levee. Levee Mile: .45</p> <p>Inspect ID: NIC2_2012_p_0034 Title: USACE_CESPK_NIC2_2012_p_0034_1.jpg Rated Item: 3. Encroachments Caption: Landside toe cut, up to 12 to 24 inches tall, 70 feet long. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

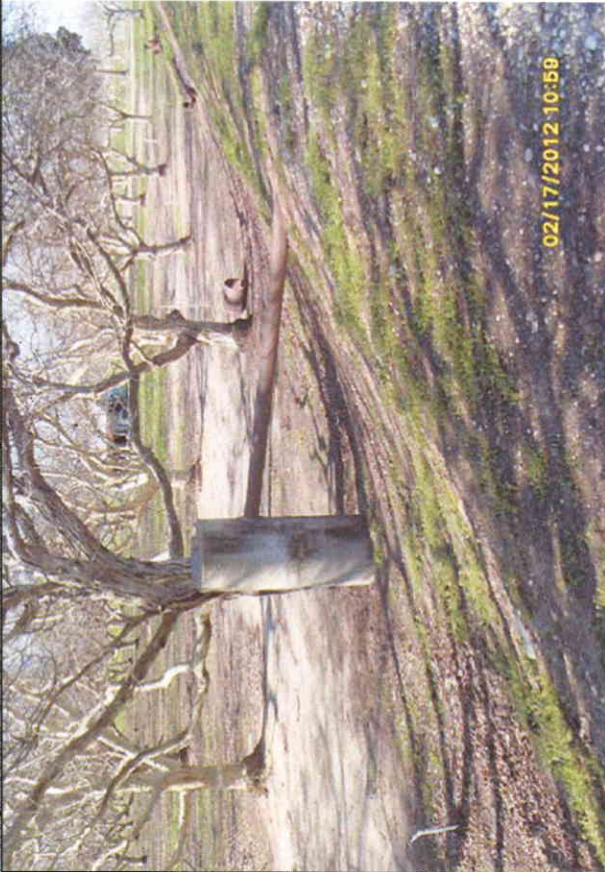
Photos

Reclamation District 1001

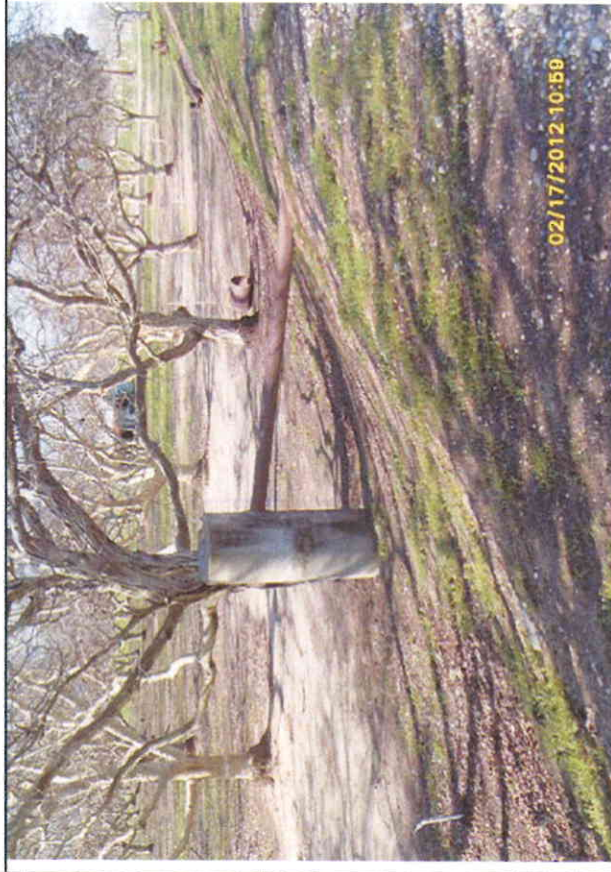
Response to 2012 Draft Periodic Inspection

NIC2 South Yankee Slough Levee

Encroachments



September 28, 2012: Currently negotiating with property owner for removal and repair of the concrete standpipe and pipe through the levee.
Levee Mile: .48



Inspect ID: NIC2_2012_p_0035 **Title:** USACE_CESPK_NIC2_2012_p_0035_1.jpg
Rated Item: 3. Encroachments **Caption:** 7 inch Pipe through the levee. Open on the waterside (broken), concrete standpipe at landside toe. (Permit No. 2281). Inspection records not available. (U)

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

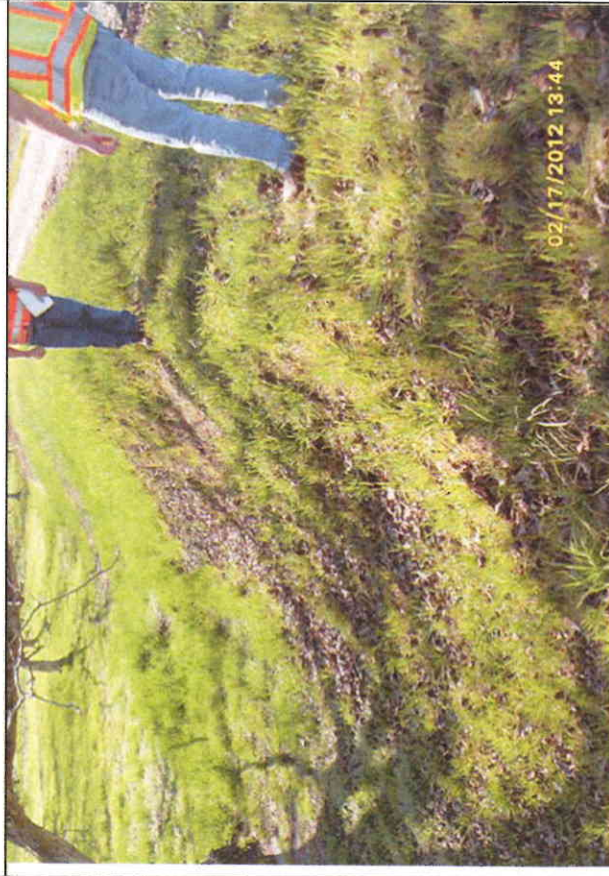
Response to 2012 Draft Periodic Inspection

NIC2 South Yankee Slough Levee

Encroachments





September 2012: Landside toe cut removed. 8 cubic yards of dirt added to levee.
Levee Mile: 1.30





Inspect ID: NIC2_2012_p_0091 **Title:** USACE_CESPK_NIC2_2012_p_0091_1.jpg
Rated Item: 3. Encroachments **Caption:** Landside toe cut, about 5 feet tall, 30 feet long..
Landside slope is nearly vertical. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

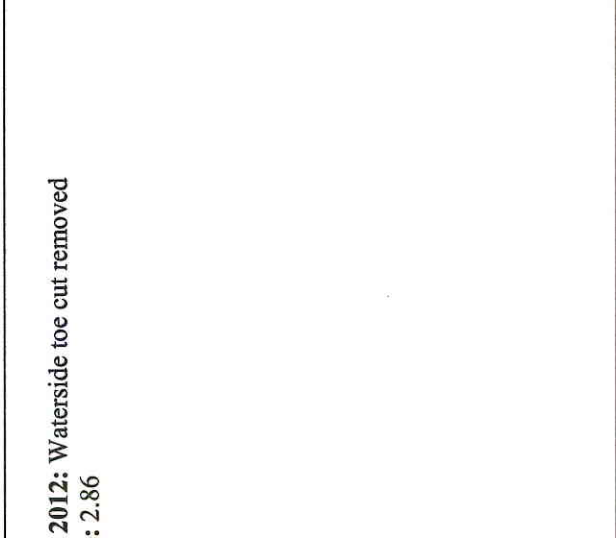
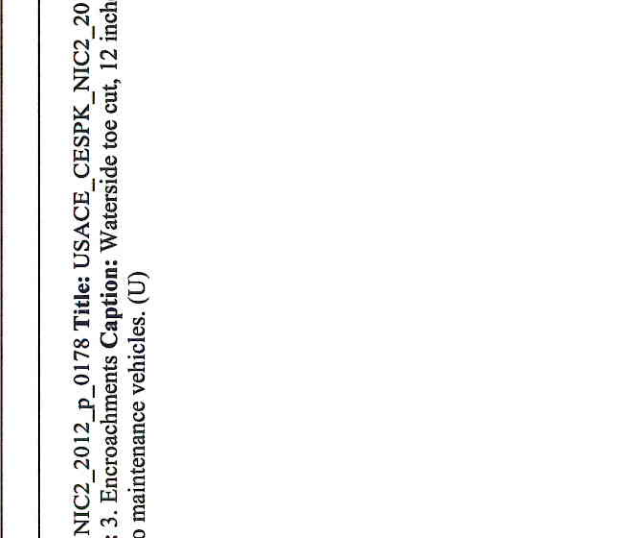
Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC2 South Yankee Slough Levee	Encroachments
		September 28, 2012: District drainage ditch currently in use to reclaim water as part of the District Drainage Facility. Levee Mile: 2.32	
		Inspect ID: NIC2_2012_p_0146 Title: USACE_CESPK_NIC2_2012_p_0146_1.jpg Rated Item: 3. Encroachments Caption: Start point. Ditch at toe, up to 12 feet wide and 5 feet deep. End point is (U)	

AGENDA ITEM 7A: ATTACHMENT 2 **Draft Letter of Intent Prepared by RD 1001**

Photos	Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC2 South Yankee Slough Levee	Encroachments
		<p>September 2012: Waterside toe cut removed Levee Mile: 2.80</p>	
		<p>Inspect ID: NIC2_2012_p_0172 Title: USACE_CESPK_NIC2_2012_p_0172_1.jpg Rated Item: 3. Encroachments Caption: Waterside toe cut, 24 inches tall, 50 feet long. Likely due to maintenance vehicles. (U)</p>	

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos	Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC2 South Yankee Slough Levee	Encroachments
		<p>September 2012: Waterside toe cut removed Levee Mile: 2.86</p>	
		<p>Inspect ID: NIC2_2012_p_0178 Title: USACE_CESPK_NIC2_2012_p_0178_2.jpg Rated Item: 3. Encroachments Caption: Waterside toe cut, 12 inches tall, 25 feet long. Likely due to maintenance vehicles. (U)</p>	

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

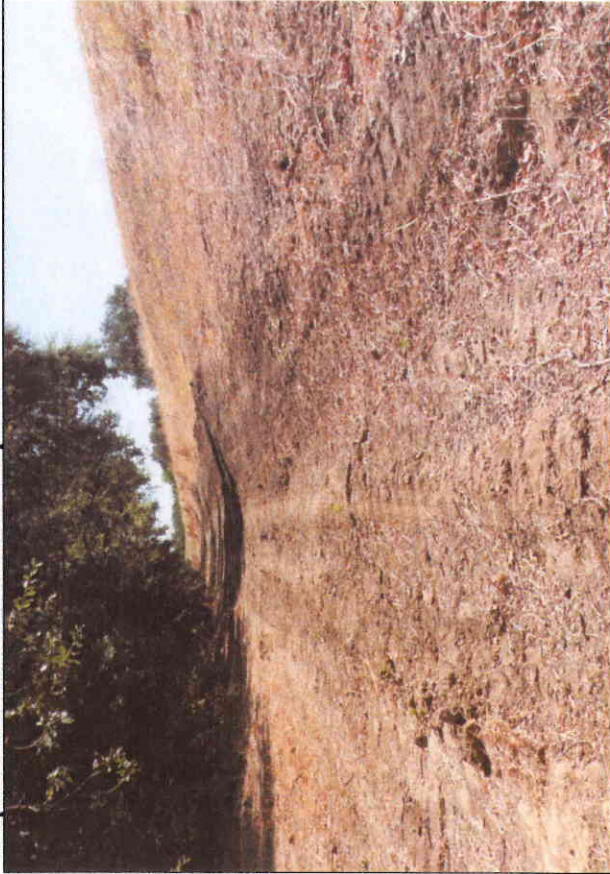
Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC2 South Yankee Slough Levee

Encroachments


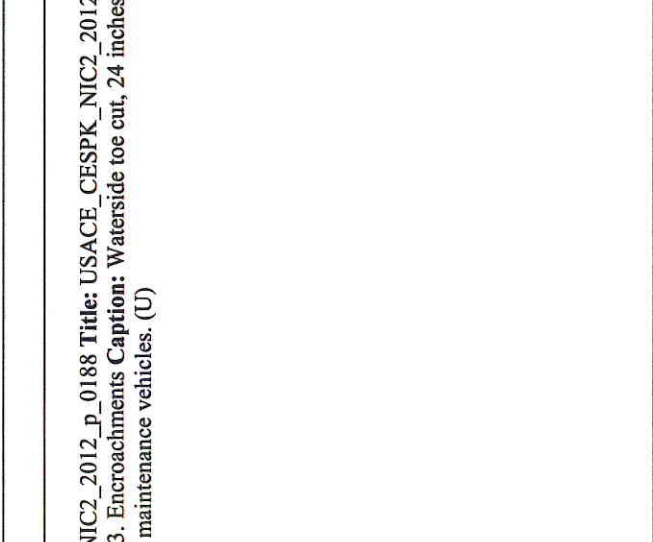


September 2012: Waterside toe cut removed
Levee Mile: 2.94




Inspect ID: NIC2_2012_p_0183 **Title:** USACE_CESPK_NIC2_2012_p_0183_1.jpg
Rated Item: 3. Encroachments **Caption:** Waterside toe cut, 24 inches tall, 100 feet long.-
Likely due to maintenance vehicles. (U)

AGENDA ITEM 7A: ATTACHMENT 2 **Draft Letter of Intent Prepared by RD 1001**

Photos	Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC2 South Yankee Slough Levee	Encroachments
		<p>September 2012: Waterside toe cut removed Levee Mile: 3.05</p>	
		<p>Inspect ID: NIC2_2012_p_0188 Title: USACE_CESPK_NIC2_2012_p_0188_1.jpg Rated Item: 3. Encroachments Caption: Waterside toe cut, 24 inches tall, 50 feet long. Likely due to maintenance vehicles. (U)</p>	

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC2 South Yankee Slough Levee	Encroachments
	<p>September 2012: Waterside toe cut removed Levee Mile: 3.14</p>	<p>Inspect ID: NIC2_2012_p_0191 Title: USACE_CESPK_NIC2_2012_p_0191_1.jpg Rated Item: 3. Encroachments Caption: Waterside toe cut, 24 inches tall, 50 feet long.. Likely due to maintenance vehicles. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC2 South Yankee Slough Levee

Encroachments




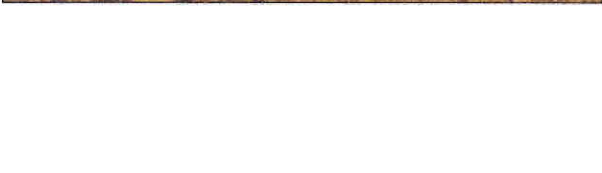
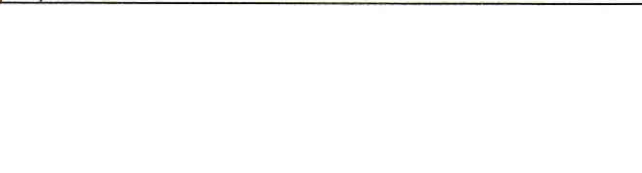
**September 2012: Waterside toe cut removed
Levee Mile: 3.17**



**Inspect ID: NIC2_2012_p_0194 Title: USACE_CESPK_NIC2_2012_p_0194_1.jpg
Rated Item: 3. Encroachments Caption: Start point. Waterside toe cut, up to 24 inches
tall. Likely due to maintenance vehicles. End point is 196. (U)**

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC2 South Yankee Slough Levee	Encroachments
	<p>September 2012: Waterside toe cut removed Levee Mile: 3.40</p>	<p>Inspect ID: NIC2_2012_p_0201 Title: USACE_CESPK_NIC2_2012_p_0201_1.jpg Rated Item: 3. Encroachments Caption: Waterside toe cut, 18 to 24 inches tall. Likely due to maintenance vehicles. (U)</p>
		

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC2 South Yankee Slough Levee

Erosion/Bank Caving



August 2012: Scour around outlet pipe corrected
Levee Mile: 2.55



Inspect ID: NIC2_2012_p_0155 Title: USACE_CESPK_NIC2_2012_p_0155_2.jpg
Rated Item: 6. Erosion/Bank Caving Caption: Scour around outlet pipe at waterside
bank, 15 feet wide and 4 feet deep. Scour appears to cut into projected levee prism. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC2 South Yankee Slough Levee

Erosion/Bank Caving



September 28, 2012: Currently management and staff are determining the most effective way to repair erosion/bank caving.
Levee Mile: 3.65



Inspect ID: NIC2_2012_p_0218 **Title:** USACE_CESPK_NIC2_2012_p_0218_3.jpg
Rated Item: 6. Erosion/ Bank Caving **Caption:** 100 foot long erosion site at waterside toe. Erosion has up to 11 foot face with 1H:1V slope. Vegetation impairs erosion inspection. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

NIC3 Bear/Feather River Levee

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC3 Bear/Feather River Levee

Sod Cover





**August 2012: Erosion rill corrected
Levee Mile: 10.03**



**Inspect ID: NIC3_2012_p_0029 Title: USACE_CESPK_NIC3_2012_p_0029_1.jpg
Rated Item: 2. Sod Cover Caption: Erosion rill on landside embankment from hinge to midslope. 24 inches wide and 30 inches deep. (U)**

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC3 Bear/ Feather River Levee	Encroachments
	<p>August 2012: Waterside toe cut removed Levee Mile: 9.47</p>	 <p>Inspect ID: NIC3_2012_p_0012 Title: USACE_CESPK_NIC3_2012_p_0012_1.jpg Rated Item: 3. Encroachments Caption: Start point. Waterside toe cut, 12 to 24 inches tall. Likely due to maintenance vehicles. End point is 38. (U)</p>

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC3 Bear/ Feather River Levee

Encroachments





September 28, 2012: Currently negotiating with property owner for repair of the landside toe cut.
Levee Mile: 11.29



Inspect ID: NIC3_2012_p_0108 **Title:** USACE_CESPK_NIC3_2012_p_0108_1.jpg
Rated Item: 3. Encroachments **Caption:** Landside toe cut, up to 3.5 foot tall. Likely due to ditch construction near toe. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos		Encroachments	
Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC3 Bear/ Feather River Levee	
		<p>August 2012: Pipe removed Levee Mile: 11.89</p>	
		<p>Inspect ID: NIC3_2012_p_0136 Title: USACE_CESPK_NIC3_2012_p_0136_1.jpg Rated Item: 3. Encroachments Caption: 3 inch pipe through levee, part of pipe is PVC slip lined. No positive closure observed. Located less than a foot below crown. (U)</p>	

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC3 Bear/ Feather River Levee

Encroachments




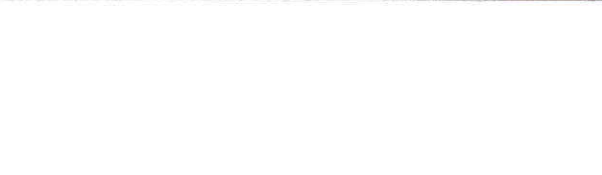

**August 2012: Waterside toe cut removed
Levee Mile: 12.08**



**Inspect ID: NIC3_2012_p_0150 Title: USACE_CESPK_NIC3_2012_p_0150_1.jpg
Rated Item: 3. Encroachments Caption: Waterside toe cut, 12 to 24 inches tall. Likely
due to maintenance vehicles. (U)**

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC3 Bear/ Feather River Levee	Encroachments
	<p>August 2012: Waterside toe cut removed Levee Mile: 12.33</p>	<p>Inspect ID: NIC3_2012_p_0158 Title: USACE_CESPK_NIC3_2012_p_0158_1.jpg Rated Item: 3. Encroachments Caption: Waterside toe cut, up to 30 inches tall, 150 feet long. Likely due to maintenance vehicles. (U)</p>
		

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC3 Bear/ Feather River Levee

Encroachments



August 2012: Waterside toe cut removed
Levee Mile: 12.41





Inspect ID: NIC3_2012_p_0160 **Title:** USACE_CESPK_NIC3_2012_p_0160_1.jpg
Rated Item: 3. Encroachments **Caption:** Waterside toe cut, up to 3 feet tall, 350 feet long. Likely due to maintenance vehicles. (U)

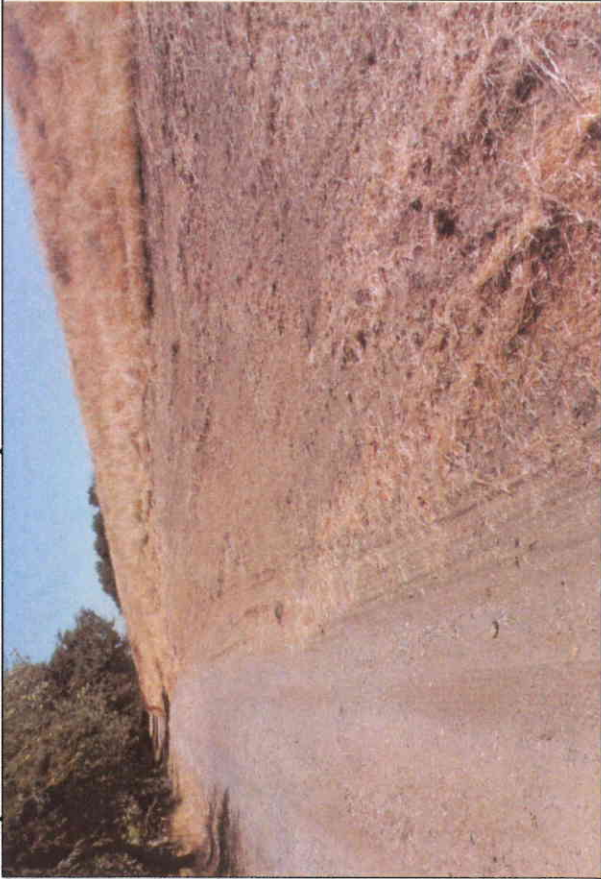
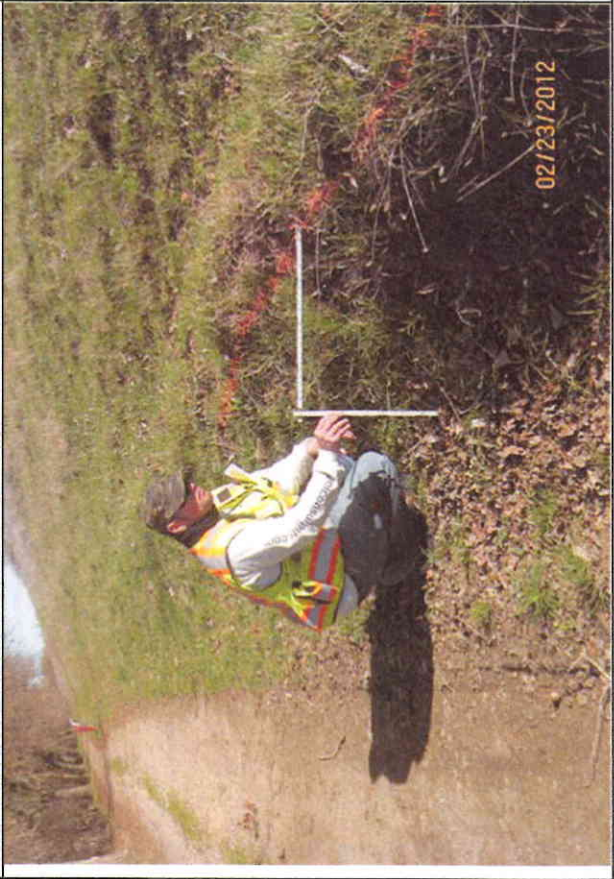
AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

NIC4 Feather River Levee

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
		August 2012: Waterside toe cut removed Levee Mile: .03	
		Inspect ID: NIC4_2012_p_0001 Title: USACE_CESPK_NIC4_2012_p_0001_1.jpg Rated Item: 3, Encroachments Caption: Start point. Vertical waterside toe cut up to 2.5 feet tall. Likely due to maintenance vehicles. End point is 21. (U)	



AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
		August 2012: Waterside toe cut removed Levee Mile: 1.37	
		Inspect ID: NIC4_2012_p_0100 Title: USACE_CESPK_NIC4_2012_p_0100_1.jpg Rated Item: 3. Encroachments Caption: Vertical waterside toe cut up to 24 inches tall for a 50 foot stretch. Likely due to maintenance vehicles. (U)	


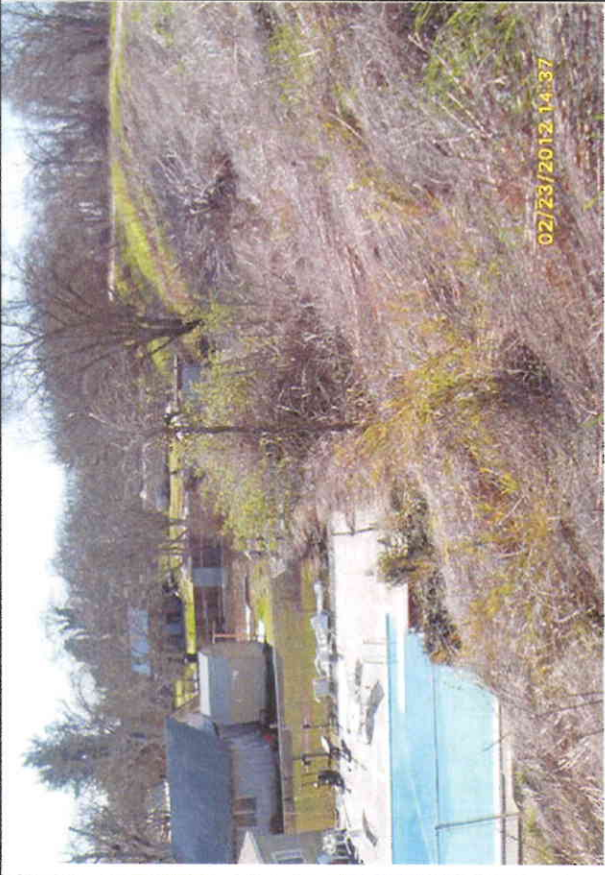
AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
		August 2012: Waterside toe cut removed Levee Mile: 2.39	
		Inspect ID: NIC4_2012_p_0156 Title: USACE_CESPK_NIC4_2012_p_0156_4.jpg Rated Item: 3. Encroachments Caption: Start point. Vertical waterside toe cut up to 55 inches tall. Likely due to maintenance vehicles. End point is 161. (U)	



AGENDA ITEM 7A: ATTACHMENT 2 **Draft Letter of Intent Prepared by RD 1001**

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC4 Feather River Levee	Encroachments
	<p>August 2012: Waterside toe cut removed Levee Mile: 2.71</p>	<p>Inspect ID: NIC4_2012_p_0172 Title: USACE_CESPK_NIC4_2012_p_0172_1.jpg Rated Item: 3. Encroachments Caption: Start point. Vertical waterside toe cut 2 to 4 feet tall. Likely due to maintenance vehicles. End point is 207. (U)</p>
		



AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
		<p>1940's: Rectangular swimming pool located approximately 8 feet from landside toe was permitted and built in the 1940's prior to the Memo of Understanding (MOU) of 1957 design profile. Therefore swimming pool existed at the time the levee system was turned over to district. Levee Mile: 2.74</p>	
		<p>Inspect ID: NIC4_2012_p_0174 Title: USACE CESPK_NIC4_2012_p_0174_1.jpg Rated Item: 3. Encroachments Caption: Rectangular swimming pool located approximately 8 feet away from landside toe. (U)</p>	

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
		August 2012: Waterside toe cut removed Levee Mile: 3.08	
			Inspect ID: NIC4_2012_p_0208 Title: USACE_CESPK_NIC4_2012_p_0208_1.jpg Rated Item: 3. Encroachments Caption: Start point. Vertical waterside toe cut 12 to 24 inches tall. Likely due to maintenance vehicles. End point is 212. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC4 Feather River Levee	Encroachments
		<p data-bbox="165 733 231 1078">August 2012: Footpath removed Levee Mile: 4.15</p> <p data-bbox="792 215 908 1078">Inspect ID: NIC4_2012_p_0248 Title: USACE_CESPK_NIC4_2012_p_0248_1.jpg Rated Item: 3, Encroachments Caption: Pedestrian footpath extending from landside toe to levee crown. Path is cut into the embankment up to 24 inches deep and up to 4 feet wide. (U)</p>

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC4 Feather River Levee

Encroachments

August 2012: Footpath removed
Levee Mile: 4.15

Inspect ID: NIC4_2012_p_0248 **Title:** USACE_CESPK_NIC4_2012_p_0248_1.jpg
Rated Item: 3. Encroachments **Caption:** Pedestrian footpath extending from landside toe to levee crown. Path is cut into the embankment up to 24 inches deep and up to 4 feet wide. (U)

02/24/2012 07:33

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

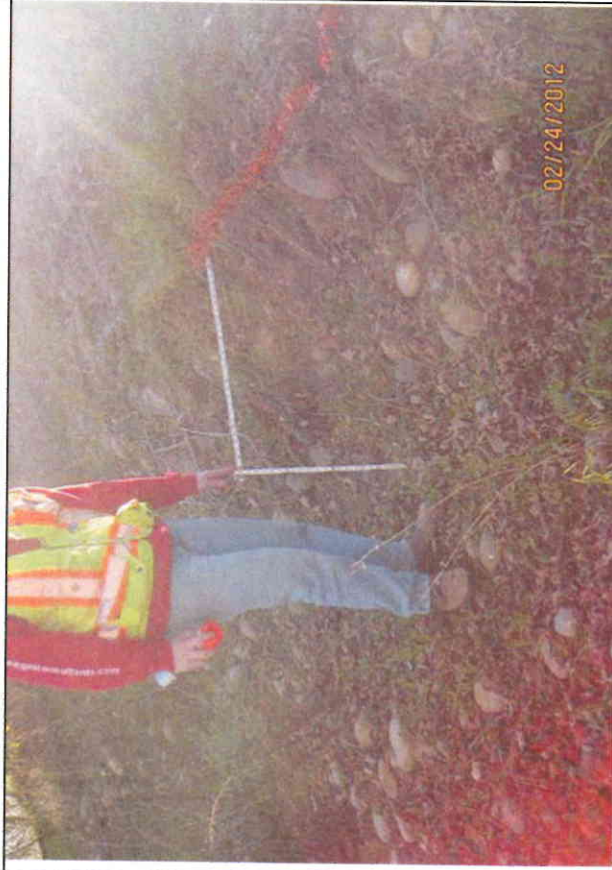
Response to 2012 Draft Periodic Inspection

NIC4 Feather River Levee

Encroachments





August 2012: Waterside toe cut removed
Levee Mile: 4.47





Inspect ID: NIC4_2012_p_0264 Title: USACE_CESPK_NIC4_2012_p_0264_1.jpg
Rated Item: 3. Encroachments Caption: Start point. Vertical waterside toe cut up to 24 inches tall. Likely due to maintenance vehicles. End point is 307. (U)



AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
		September 28, 2012: Currently working with property owner to repair hole in slope above exposed pipe. To be completed before onset of flood season. Levee Mile: 6.87	
		Inspect ID: NIC4_2012_p_0390 Title: USACE_CESPK_NIC4_2012_p_0390_3.jpg Rated Item: 3. Encroachments Caption: Two 14 inch pipes through levee. Pump on riverbank to 36 inch standpipe at landside toe. Shutoff valves located on waterside embankment. Hole in slope above exposed pipe (point 392). No inspection records available. (Permit No. 2062) (U)	



AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
		<p>September 28, 2012: Currently negotiating with property owner as to best possible method to resolve wooden retaining wall.</p> <p>Levee Mile: 7.76</p>	
			<p>Inspect ID: NIC4_2012_p_0443 Title: USACE_CESPK_NIC4_2012_p_0443_1.jpg</p> <p>Rated Item: 3. Encroachments Caption: Wooden retaining wall cut into landside embankment. Retaining wall is approximately 2 to 4 feet high and 100 feet long. (U)</p>



AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC4 Feather River Levee	Encroachments
	<p>September 2012: Waterside toe cut removed Levee Mile: 9.01</p>	<p>Inspect ID: NIC4_2012_p_0491 Title: USACE_CESPK_NIC4_2012_p_0491_1.jpg Rated Item: 3. Encroachments Caption: Vertical waterside toe cut up to 42 inches tall for a 50 foot stretch. Likely due to maintenance vehicles. (U)</p>
		



AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
		<p>September 28, 2012: Currently negotiating with property owner for removal and repair of pipe. Levee Mile: 9.55</p>	
			<p>Inspect ID: NIC4_2012_p_0512 Title: USACE_CESPK_NIC4_2012_p_0512_2.jpg Rated Item: 3. Encroachments Caption: 12 inch pipe through levee. Pipe exposed on waterside and landside with no positive closure device. Pipe on waterside is breached with holes and sand is visible within. Animals were exiting pipe at time of inspection. No inspection records available. (U)</p>



AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC4 Feather River Levee	Encroachments
	<p>September 2012: 10 foot diameter hole on waterside embankment to a depth of 3 feet, filled. Second hole nearby, 30 inches diameter and 16 inches deep, filled. 40 cubic yards of dirt added to levee. Levee Mile: 9.61</p>	
	<p>Inspect ID: NIC4_2012_p_0522 Title: USACE_CESPK_NIC4_2012_p_0522_3.jpg Rated Item: 3. Encroachments Caption: 10 foot diameter hole on waterside embankment to a depth of 3 feet. Second hole nearby, 30 inches diameter and 16 inches deep. (U)</p>	

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
		September 2012: 2.5 foot deep, 3.5 foot wide hole at landside hinge, filled. Levee Mile: 9.74	
		Inspect ID: NIC4_2012_p_0534 Title: USACE_CESPK_NIC4_2012_p_0534_2.jpg Rated Item: 3. Encroachments Caption: 2.5 foot deep, 3.5 foot wide hole at landside hinge likely due to excavation. Possibly a removed gate foundation. (U)	

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
			September 2012: Waterside toe cut removed Levee Mile: 9.81
Inspect ID: NIC4_2012_p_0541 Title: USACE_CESPK_NIC4_2012_p_0541_1.jpg Rated Item: 3. Encroachments Caption: Start point. Vertical waterside toe cut up to 42 inches tall for a 50 foot stretch. Likely due to maintenance vehicles. End point is 565. (U)			

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC4 Feather River Levee

Encroachments


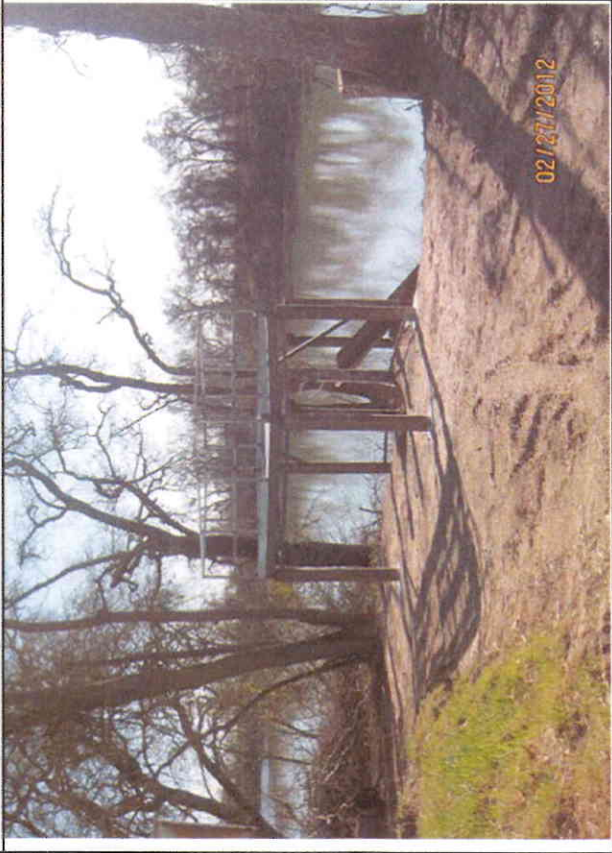


September 28, 2012: Currently negotiating with property owner for removal and repair of pipe.
Levee Mile: 10.02



Inspect ID: NIC4_2012_p_0549 **Title:** USACE_CESPK_NIC4_2012_p_0549_3.jpg
Rated Item: 3. Encroachments **Caption:** 12 inch pipe through levee. Slant pump on waterside bank to 24 inch standpipe at landside toe. No positive closure on waterside shoulder. Pipe broken near siphon breaker on landside embankment. No inspection records available. (Permit No. 3297) (U)



AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
		<p>May 2012: Currently pump is permitted and active. Pump, pipes and adjacent structures are maintained by the property owner. Levee Mile: 10.24</p>	
		<p>Inspect ID: NIC4_2012_p_0560 Title: USACE_CESPK_NIC4_2012_p_0560_1.jpg Rated Item: 3. Encroachments Caption: 18 inch pipe through levee. Waterside slant pump removed and being reconstructed. No positive closure device observed. Siphon break on landside hinge. Utility poles on landside slope and near waterside toe. No inspection record available (Permit 1881) (U)</p>	

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
Please see attached summary for response			August 2012: Levee Mile: 10.31
No picture or caption included in 2012 Draft Periodic Inspection Report			Inspect ID: NIC4_2012_p_0565 Title: No picture Rated Item: 3. Encroachments Caption: No caption Location: Longitude -121.6364617 Latitude 38.81460667

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
			<p>September 28, 2012: Currently negotiating with property owner for repair of scour on landside toe. Levee Mile: 10.71</p>
			<p>Inspect ID: NIC4_2012_p_0582 Title: USACE_CESPK_NIC4_2012_p_0582_5.jpg Rated Item: 3. Encroachments Caption: Groundwater pump cut into landside embankment. 7 foot tall concrete headwall surrounds pump. Pump feeds 36 inch standpipe within 15 feet of landside toe. Approximately 1 foot of scour located 8 feet from toe. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

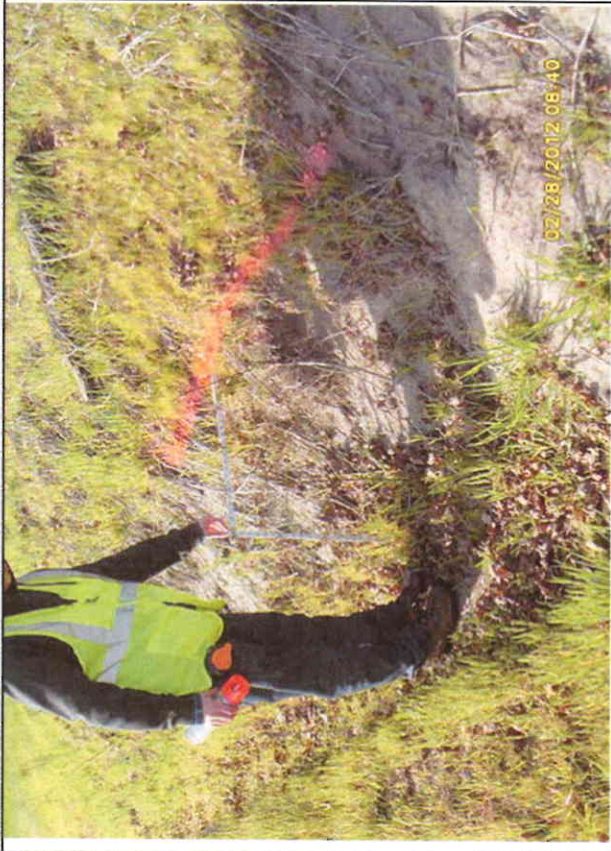
Response to 2012 Draft Periodic Inspection

NIC4 Feather River Levee

Encroachments





September 2012: Landside toe cut removed
Levee Mile: 11.20





Inspect ID: NIC4_2012_p_0614 Title: USACE_CESPK_NIC4_2012_p_0614_1.jpg
Rated Item: 3. Encroachments Caption: Vertical landside toe cut up to 24 inches tall for a 100 foot stretch. (U)


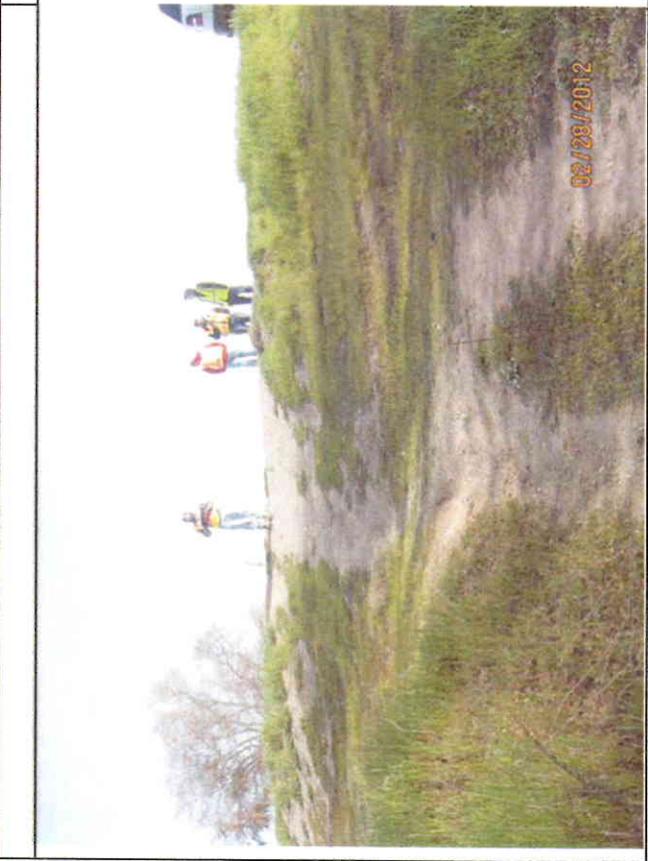
AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
			September 2012: Waterside toe cut removed Levee Mile: 11.37
			Inspect ID: NIC4_2012_p_0624 Title: USACE_CESPK_NIC4_2012_p_0624_1.jpg Rated Item: 3. Encroachments Caption: Vertical waterside toe cut up to 24 inches tall for a 50 foot stretch. Likely due to maintenance vehicles. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos		Encroachments	
Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	
		<p>September 2012: Landside toe cut removed Levee Mile: 11.65</p>	
		<p>Inspect ID: NIC4_2012_p_0631 Title: USACE_CESPK_NIC4_2012_p_0631_1.jpg Rated Item: 3. Encroachments Caption: Vertical landside toe cut 6 to 24 inches tall for a 100 foot stretch. (U)</p>	

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC4 Feather River Levee	Encroachments
	<p>September 2012: Pedestrian footpath extending from waterside toe to levee crown removed. A "Driving or Climbing on Levee Prohibited" and a "No Dumping" signs were erected on waterside crown. Levee Mile: 12.03</p>	<p>Inspect ID: NIC4_2012_p_0655 Title: USACE_CESPK_NIC4_2012_p_0655_1.jpg Rated Item: 3. Encroachments Caption: Pedestrian footpath extending from waterside toe to levee crown. Path is cut into the embankment up to 2 feet deep and 10 feet wide. (U)</p> 

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC4 Feather River Levee

Encroachments





September 2012: Waterside toe Cut removed.
Levee Mile: 12.06





Inspect ID: NIC4_2012_p_0656 **Title:** USACE_CESPK_NIC4_2012_p_0656_1.jpg
Rated Item: 3. Encroachments **Caption:** Vertical waterside toe cut up to 30 inches tall for a 50 foot stretch. Likely due to maintenance vehicles. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Encroachments
		September 2012: Waterside toe cut removed. Levee Mile: 12.42	
		Inspect ID: NIC4_2012_p_0671 Title: USACE_CESPK_NIC4_2012_p_0671_1.jpg Rated Item: 3. Encroachments Caption: Vertical waterside toe cut up to 48 inches tall. Likely due to maintenance vehicles. (U)	

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC4 Feather River Levee	Erosion/Bank Caving
		<p>September 28, 2012: Currently management and staff are determining the most effective way to repair erosion/bank caving. Levee Mile: 1.79</p>	
		<p>Inspect ID: NIC4_2012_p_0122 Title: USACE_CESPK_NIC4_2012_p_0122_2.jpg Rated Item: 6. Erosion/ Bank Caving Caption: Start point. Erosion site at waterside toe. Erosion area is within the levee prism. Erosion face is 10 feet at a 1H:1V slope, with tree roots exposed. End point is 134. (U)</p>	

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC4 Feather River Levee

Depressions/Rutting



September 2012: Rutting on waterside embankment up to 24 inches, 5 feet wide, and 20 feet long, filled. 20 cubic yards of dirt added to levee.
Levee Mile: 9.57



Inspect ID: NIC4_2012_p_0517 **Title:** USACE_CESPK_NIC4_2012_p_0517_2.jpg
Rated Item: 8. Depressions/ Rutting **Caption:** Rutting on waterside embankment up to 24 inches deep, 5 feet wide, and 20 feet long. (U)

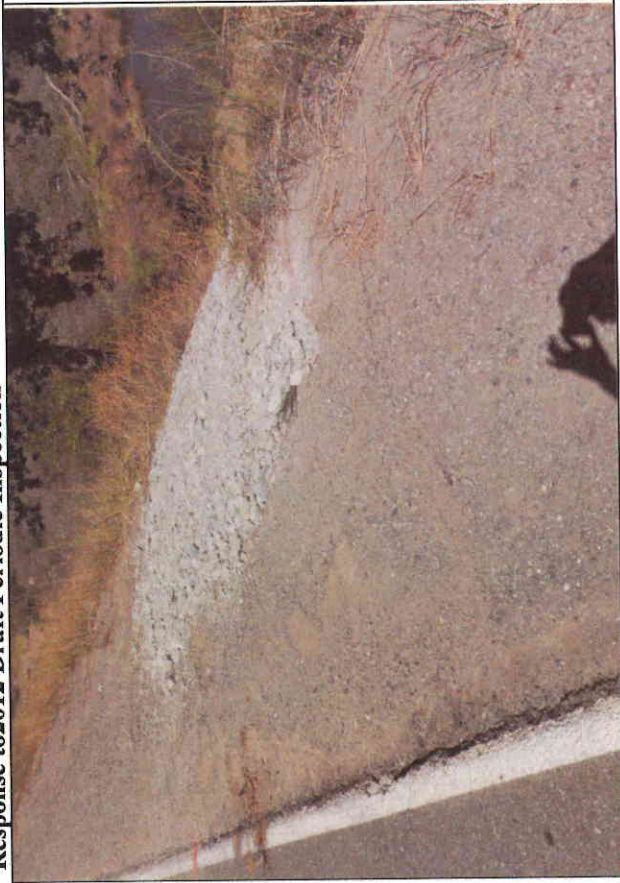
Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC4 Feather River Levee

Depressions/Rutting




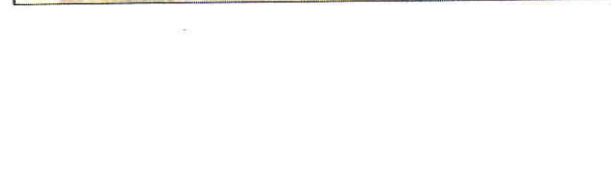
September 2012: Rutting full height of landside embankment up to 24 inches deep and 18 inches wide, filled. 10 cubic yards of shale rock added to levee.
Levee Mile: 10.20



Inspect ID: NIC4_2012_p_0559 Title: USACE_CESPK_NIC4_2012_p_0559_2.jpg
Rated Item: 8. Depressions/ Rutting Caption: Rutting full height of landside embankment up to 24 inches deep and 18 inches wide. (U)

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC4 Feather River Levee	Seepage
		<p>December 1955: Scour hole created by the historical levee breach on December 24, 1955. Scour hole remained after levee was repaired and prior to the Memo of Understanding (MOU) of 1957 design profile. Therefore scour hole existed at the time the levee system was turned over to district. Levee Mile: 10.18</p>
		<p>Inspect ID: NIC4_2012_p_0557 Title: USACE_CESPK_NIC4_2012_p_0557_3.jpg Rated Item: 15. Seepage Caption: Scour hole 12 to 15 feet from LS toe, likely from historical levee breach. Continuous saturated area remains at historic breach/seepage location. Water appears to be the same elevation as the water level of the waterside channel. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

NIC5 Cross Canal Levee

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC5 Cross Canal Levee	Encroachments
	<p>September 2012: Landside toe cut removed Levee Mile: .55</p>	<p>Inspect ID: NIC5_2012_p_0024 Title: USACE_CESPK_NIC5_2012_p_0024_1.jpg Rated Item: 3. Encroachments Caption: 3 foot tall landside toe cut, 20 feet long. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

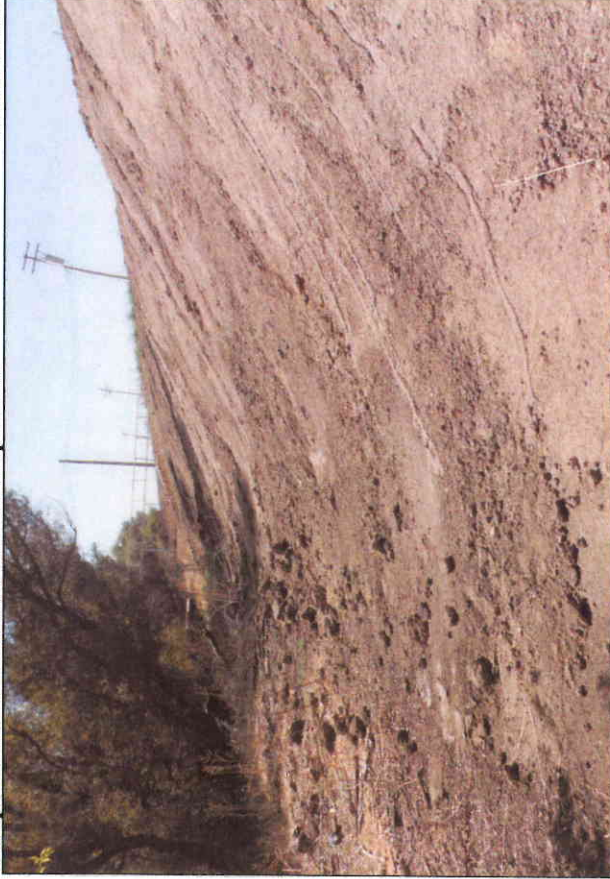
Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC5 Cross Canal Levee

Encroachments





August 2012: Waterside toe cut removed
Levee Mile: 3.77





Inspect ID: NIC5_2012_p_0128 **Title:** USACE_CESPK_NIC5_2012_p_0128_3.jpg
Rated Item: 3. Encroachments **Caption:** 3 foot tall waterside toe cut for 100 feet. Likely due to maintenance vehicles. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC5 Cross Canal Levee	Erosion/Bank Caving
			<p>September 28, 2012: Currently management and staff are determining the most effective way to repair erosion/bank caving. Levee Mile: 1.07</p>
			<p>Inspect ID: NIC5_2012_p_0048 Title: USACE_CESPK_NIC5_2012_p_0048_2.jpg Rated Item: 6. Erosion/ Bank Caving Caption: Start point. Erosion at waterside toe with near vertical to 1H:1V face ranging from 6 to 10 feet along face. End point is 61. (U)</p>



AGENDA ITEM 7A: ATTACHMENT 2 **Draft Letter of Intent Prepared by RD 1001**

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC5 Cross Canal Levee	Erosion/Bank Caving
		<p>September 28, 2012: Currently management and staff are determining the most effective way to repair erosion/bank caving. Levee Mile: 5.10</p>
		<p>Inspect ID: NIC5_2012_p_0166 Title: USACE CESP_K_NIC5_2012_p_0166_1.jpg Rated Item: 6. Erosion/ Bank Caving Caption: Waterside bank eroded into levee embankment toe. Erosion 100 foot long and extends about 5 feet into embankment with a 1H:1V face of 15 feet. (see point 167) (U)</p>



AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

NIC6 East Canal Levee

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC6 East Canal Levee	Encroachments
		<p>September 2012: Currently pump is permitted and active. Pump, pipes and adjacent structures are maintained by the property owner. Levee Mile: 2.29</p>
		<p>Inspect ID: NIC6_2012_p_0069 Title: USACE_CESPK_NIC6_2012_p_0069_3.jpg Rated Item: 3. Encroachments Caption: 16 inch pipe through the levee. No waterside closure. Air break on landside hinge. Landside outlet is on the other side of the road. No inspection records available. (Permit 12208) (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection		NIC6 East Canal Levee	Encroachments
			<p>September 2012: Slide gate in CMP riser at waterside hinge is closed as shown in picture. Levee Mile: 3.29</p>
			<p>Inspect ID: NIC6_2012_p_0084 Title: USACE_CESPK_NIC6_2012_p_0084_1.jpg Rated Item: 3. Encroachments Caption: 24 inch pipe through levee. Slide gate in CMP riser at waterside hinge. Slide gate appears to be inoperable. Cannot determine if gate is open or closed. No inlet or outlet observed for the pipe. No inspection records available. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

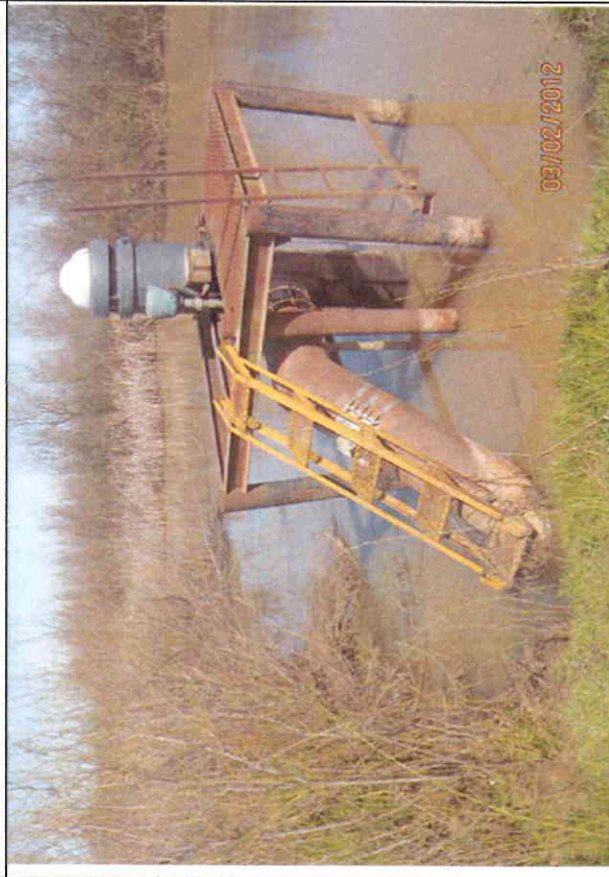
Response to 2012 Draft Periodic Inspection

NIC6 East Canal Levee

Encroachments

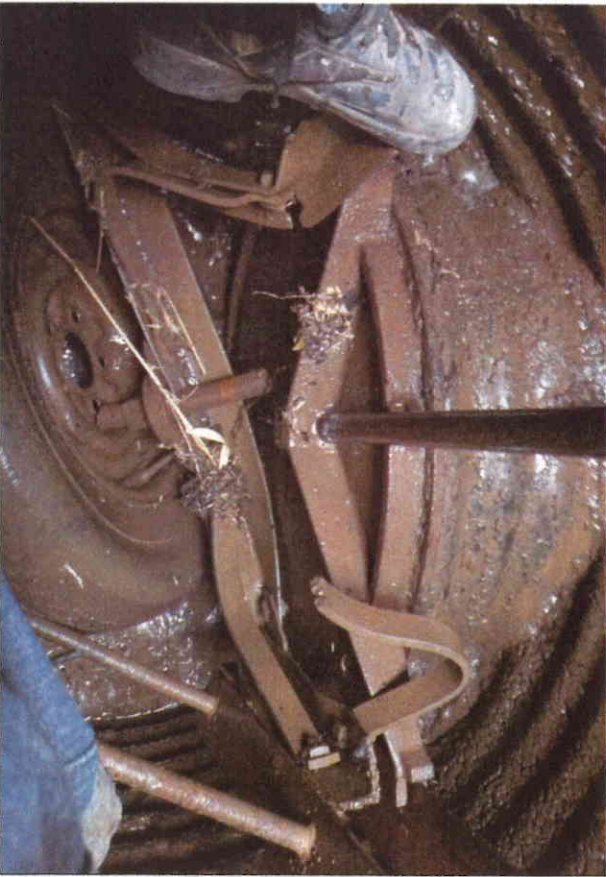



May 2012: Currently pump is permitted and active. Pump, pipes and adjacent structures are maintained by the property owner.
Levee Mile: 3.44



Inspect ID: NIC6_2012_p_0087 Title: USACE_CESPK_NIC6_2012_p_0087_1.jpg
Rated Item: 3. Encroachments Caption: 16 inch pipe through the levee. No positive closure device observed. Air break on landside hinge. Landside outlet is on the other side of the road. (Permit 13153) (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos		Encroachments	
Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC6 East Canal Levee		
		<p>September 2012: Slide gate in CMP riser at waterside hinge is closed as shown in picture. Therefore no flow will continue to concrete head/wing wall on the landside. Levee Mile: 3.60</p>	
		<p>Inspect ID: NIC6_2012_p_0091 Title: USACE_CESPK_NIC6_2012_p_0091_1.jpg Rated Item: 3. Encroachments Caption: 24 inch pipe through the levee for drainage. Slide gate in a 36 inch CMP riser at waterside hinge. No visible inlet/outlet on waterside. Concrete head/wing wall on the landside. Landside is almost completely buried by accumulated sediment. (U)</p>	

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos

Reclamation District 1001

Response to 2012 Draft Periodic Inspection

NIC6 East Canal Levee

Encroachments





September 2012: Toe cut on landside removed
Levee Mile: 4.01





Inspect ID: NIC6_2012_p_0107 **Title:** USACE_CESPK_NIC6_2012_p_0107_1.jpg
Rated Item: 3. Encroachments **Caption:** Toe cut on landside. 18 to 24 inches tall with 1:1 slope over 100 feet. (U)

AGENDA ITEM 7A: ATTACHMENT 2
Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC6 East Canal Levee	Slope Stability
		<p>September 2012: Typical shrinkage cracks, handled under routine maintenance, monitored under high water conditions. Cracking and or sloping addressed. Levee Mile: .55</p> <p>Inspect ID: NIC6_2012_p_0136 Title: USACE_CESPK_NIC6_2012_p_0136_2.jpg Rated Item: 5. Slope Stability Caption: Cracking (see point 27) along upper third of landside slope. 4 to 12 inches deep with up to 2 inch vertical displacement. (U)</p>

AGENDA ITEM 7A: ATTACHMENT 2

Draft Letter of Intent Prepared by RD 1001

Photos Reclamation District 1001 Response to 2012 Draft Periodic Inspection	NIC6 East Canal Levee	Cracking
	<p>September 2012: Typical shrinkage cracks, handled under routine maintenance, monitored under high water conditions. Cracking and or sloping addressed. Levee Mile: .55</p>	
	<p>Inspect ID: NIC6_2012_p_0027 Title: USACE_CESPK_NIC6_2012_p_0027_4.jpg Rated Item: 9. Cracking Caption: Cracking along upper third of landside slope. 4 to 12 inches deep with up to 2 inch vertical displacement. (U)</p>	

**AGENDA ITEM 7A: ATTACHMENT 3
Policy for Development of SWIFs**

CECW-HS

SUBJECT: Policy for Development and Implementation of System-Wide Improvement Frameworks (SWIFs)

c. Transitioning “Acceptable” or “Minimally Acceptable” Levees. Levee sponsors with levees that are “Active” in the rehabilitation assistance program under an existing vegetation variance or deviation from the standard that want to use the SWIF process to transition to a new vegetation inspection standard through the vegetation variance request process, or that would like to systematically improve the condition of participating levees, may maintain their P.L. 84-99 rehabilitation assistance eligibility as long as they continue to meet the milestones set forth in their applicable SWIF.

d. Reinstating Eligibility While Developing and Implementing a SWIF. Levee sponsors that receive an overall levee system inspection rating of “Unacceptable” or have been “Inactive” in the rehabilitation program may regain eligibility for P.L. 84-99 rehabilitation assistance through the SWIF process. Upon approval by USACE of the letter of intent, requirements described below, the levee sponsor will receive an initial of up to two-year reinstatement of eligibility for P.L. 84-99 rehabilitation assistance. Continued eligibility will be determined annually based on milestones described in the subsequent SWIF. Levee sponsors who have never been eligible for rehabilitation assistance under P.L. 84-99 cannot gain P.L. 84-99 rehabilitation assistance eligibility through the SWIF process.

7. Requirements for Development and Submittal of a SWIF. The development of a SWIF is a two-step process consisting of (1) a Letter of Intent from the sponsor briefly describing levee system deficiencies and justification for how a system-wide approach will optimize flood risk reduction, and (2) development of a SWIF for addressing deficiencies and reducing flood risk. Once a Letter of Intent has been approved by USACE, a levee sponsor has up to two years to develop a SWIF plan. Eligibility after this two-year period will be dependent on the levee sponsor’s progress in achieving the milestones defined in the SWIF. The SWIF plan is intended to be a specific document that guides sponsor activities, including anticipated milestones, but may also be adaptable and should be revised if conditions or needs change during implementation. The requirements for the Letter of Intent and SWIF are described as follows:

a. Requirements for Submitting a Letter of Intent for a SWIF. A Letter of Intent must be signed by all associated levee sponsors for each levee system involved in developing the SWIF and must include the following:

(1) Identification of levee system or systems to be covered by the SWIF, including system name and system identification number as listed in the National Levee Database;

(2) Brief description of deficiencies or issues that will be included in the SWIF and discussion of how a system-wide approach will improve and optimize overall flood risk reduction. This includes identifying any conditions not within the control of the levee sponsor(s) that prevents them from correcting “Unacceptable” inspection items in a timely manner;

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(3) Demonstration that significant non-federal resources have been, or will be, committed for developing and/or implementing the SWIF (e.g., state legislative action, bond financing);

(4) Anticipated interim risk reduction measures that will be implemented throughout the SWIF process, including overall risk communication approach that addresses the risk to life increased by system-wide deficiencies;

(5) Brief description of existing or planned interagency collaborative efforts that will contribute positively to SWIF development, implementation and oversight; and

(6) List of anticipated state and federal permits and consultation requirements, needed to implement the SWIF.

b. Requirements for Submittal of a SWIF. SWIFs are developed and implemented by levee sponsor(s), reviewed and accepted by USACE, and monitored by a USACE district to address system-wide issues in a prioritized way to optimize system-wide risk reduction. As a minimum for acceptance by USACE, the levee sponsor's SWIF must include the following:

(1) Identification of levee system or systems covered by the system-wide improvement framework, including system name and identification number as listed in the National Levee Database;

(2) Description of proposed levee improvement and justification on how the SWIF optimizes flood risk reduction;

(3) A plan and schedule for interagency collaboration, including environmental and/or Tribal consultation if applicable, in the implementation of the SWIF;

(4) Documentation of specific agreements, such as project specific agreements, between levee sponsors and USACE or other agencies/organizations related to implementation of levee modifications, under Section 408 or other overlapping USACE policies and studies, applicable to the levee systems identified in the system-wide improvement framework;

(5) Documentation of any regional considerations, approaches, and tools to be used during implementation of the system-wide improvement framework;

(6) Description of interim maintenance standards that will be implemented during the SWIF to mitigate conditions of uncorrected "Unacceptable" inspection items;