

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD1001_01_s_2012_1				
Action/Comments					
Inspector Comments: The LMA has flood fight supplies on hand at their district office.					

No Photos

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD1001_01_s_2012_2				
Action/Comments					
Inspector Comments: The LMA participates in the flood fight class put on by RD784 and DWR annually.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD1001_01_s_2012_3				
Action/Comments					
Inspector Comments: The LMA has a copy of the O&M manuals at the district office.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	0.27	Rating **	M	Issue No.	4
LM End	0.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.974323 °	38.974323 °	
			-121.476442 °	-121.476442 °	
DWR ID	DWR_RD1001_02_f_2014_4				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Animal hole on waterward levee slope near the crown. Hole is approximately 1' in diameter and 8" deep.					

Photo 1 of 2 : FA_2015_RD1001_35_4_20151103_00001.jpg



This photo was taken from the levee crown facing east looking down the waterward slope at an animal burrow. Fall 2014.

LM Start	0.27	Rating **	M	Issue No.	4 (cont)
LM End	0.27	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_RD1001_35_4_20151103_00002.jpg



Another picture of the animal burrow. Fall 2014.

LM Start	1.11	Rating **	M	Issue No.	8
LM End	1.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.971547 °	38.971547 °	
			-121.490968 °	-121.490968 °	
DWR ID	DWR_RD1001_02_s_2015_8				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	1.33	Rating **	M	Issue No.	1
LM End	1.36	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.969740 °	38.969640 °
				-121.494327 °	-121.494829 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - New erosion site. Steep eroding slope. Fairly old scarp with vegetation growth. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: YAS_1-7_L]					

No Photos

LM Start	1.76	Rating **	A/W	Issue No.	5
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.970265 °	38.970265 °
				-121.502348 °	-121.502348 °
DWR ID	DWR_RD1001_02_f_2015_5				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

No Photos

LM Start	1.88	Rating **	N	Issue No.	6
LM End	1.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.969489 °	38.969489 °
				-121.504155 °	-121.504155 °
DWR ID	DWR_RD1001_02_f_2015_6				
Action/Comments					
Tree stumps.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	1.89	Rating **	N	Issue No.	13
LM End	1.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.969423 °	38.969423 °	
			-121.504225 °	-121.504225 °	
DWR ID	DWR_RD1001_02_f_2015_13				
Action/Comments					
Tree stumps.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	0.14	Rating **	M	Issue No.	23
LM End	0.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		39.006351 °	39.006351 °	
			-121.377313 °	-121.377313 °	
DWR ID	DWR_RD1001_03_s_2015_23				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : FA_2015_RD1001_37_23_20151103_00014.jpg



View of the rutting on the landside of the levee from the toe facing downstream.

LM Start	0.31	Rating **	C	Issue No.	18
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.006336 °	39.006336 °	
			-121.380524 °	-121.380524 °	
DWR ID	DWR_RD1001_03_f_2014_18				
Action/Comments					
Tree or limb					

No Photos

LM Start	0.84	Rating **	C	Issue No.	13
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		39.006429 °	39.006429 °	
			-121.390363 °	-121.390363 °	
DWR ID	DWR_RD1001_03_f_2013_13				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	0.93	Rating **	C	Issue No.	15
LM End	0.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		39.006609 °	39.006609 °	
			-121.392030 °	-121.392030 °	
DWR ID	DWR_RD1001_03_f_2013_15				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.11	Rating **	C	Issue No.	16
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		39.005980 °	39.005980 °	
			-121.395210 °	-121.395210 °	
DWR ID	DWR_RD1001_03_f_2013_16				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.50	Rating **	C	Issue No.	24
LM End	1.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		39.002421 °	39.002421 °	
			-121.400751 °	-121.400751 °	
DWR ID	DWR_RD1001_03_s_2015_24				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	1.87	Rating **	A/W	Issue No.	28
LM End	1.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.998608 °	38.998608 °	
			-121.405570 °	-121.405570 °	
DWR ID	DWR_RD1001_03_s_2013_28				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 2 : FA_2015_RD1001_37_28_20151103_00018.jpg



Damage caused by vehicles Spring 2013

LM Start	1.87	Rating **	A/W	Issue No.	28 (cont)
LM End	1.87	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_RD1001_37_28_20151103_00019.jpg



Damage caused by vehicles. Spring 2013

LM Start	1.87	Rating **	A/W	Issue No.	29
LM End	1.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.998608 °	38.998608 °	
			-121.405570 °	-121.405570 °	
DWR ID	DWR_RD1001_03_s_2013_29				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 2 : FA_2015_RD1001_37_29_20151103_00020.jpg



Damage caused by vehicles going around the gate. Spring 2013

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	2.57	Rating **	A/W	Issue No.	34
LM End	2.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.995642 °	38.995642 °	
			-121.417626 °	-121.417626 °	
DWR ID	DWR_RD1001_03_s_2015_34				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	2.59	Rating **	A/W	Issue No.	36
LM End	2.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.995583 °	38.995583 °	
			-121.417995 °	-121.417995 °	
DWR ID	DWR_RD1001_03_s_2015_36				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	2.96	Rating **	M	Issue No.	42
LM End	2.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.994157 °	38.994157 °	
			-121.424520 °	-121.424520 °	
DWR ID	DWR_RD1001_03_f_2013_42				
Action/Comments					
Debris					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	3.52	Rating **	M	Issue No.	906
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.991745 °	38.991745 °	
			-121.434398 °	-121.434398 °	
DWR ID	DWR_RD1001_03_s_2012_906				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.65	Rating **	M	Issue No.	58
LM End	4.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.991513 °	38.991513 °	
			-121.455220 °	-121.455220 °	
DWR ID	DWR_RD1001_03_s_2012_58				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.82	Rating **	M	Issue No.	910
LM End	4.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.990773 °	38.990773 °	
			-121.458203 °	-121.458203 °	
DWR ID	DWR_RD1001_03_s_2012_910				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA_2015_RD1001_37_910_20151103_00030.jpg



RD 1001 Unit 3 - L/S slope -Elderberries

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	6.47	Rating **	M	Issue No.	38
LM End	6.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.984010 °	38.983955 °	
			-121.487420 °	-121.488083 °	
DWR ID	DWR_RD1001_03_s_2013_38				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : FA_2015_RD1001_37_38_20151103_00024.jpg



Erosion caused by run off from the roadway. Spring 2013

LM Start	7.22	Rating **	M	Issue No.	17
LM End	7.31	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2015 USACE Erosion Survey, DRAFT		38.982737 °	38.982572 °	
			-121.501144 °	-121.502797 °	
DWR ID					
Action/Comments					
Inspector Comments: 2008 - Sandy/silty banks with rotational slab failures creating near vertical bank with pop-outs due to tree failures. Narrow berm. 2015: Last observed in 2013. [2015 Site ID: BER_5-7_L]					

Photo 1 of 1 : USACE2013A_BER_5-7_L_2.jpg



USACE 2013 Photo #1

LM Start	8.81	Rating **	M	Issue No.	6
LM End	9.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.969710 °	38.969383 °	
			-121.524678 °	-121.529884 °	
DWR ID	DWR_RD1001_03_f_2015_6				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	9.22	Rating **	M	Issue No.	8
LM End	9.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.970024 °	38.970719 °	
			-121.531848 °	-121.533859 °	
DWR ID	DWR_RD1001_03_f_2015_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	10.10	Rating **	C	Issue No.	46
LM End	10.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.968090 °	38.968090 °	
			-121.543568 °	-121.543568 °	
DWR ID	DWR_RD1001_03_s_2015_46				
Action/Comments					
Prunings					

No Photos

LM Start	10.36	Rating **	M	Issue No.	10
LM End	10.40	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2015 USACE Erosion Survey, DRAFT		38.964583 °	38.964010 °	
			-121.544967 °	-121.545228 °	
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Large section of bank has slumped off. RD has flagged and appears to be watching. 2012 - Slopes slightly steeper. 2013 - Minor new erosion observed. 2015: Last observed in 2013. [2015 Site ID: BER_2-5_L]					

Photo 1 of 1 : USACE2013A_BER_2-5_L_2.jpg



USACE 2013 Photo #1

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Unit No. 03 Bear River	Left	12.58	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	10.58	Rating **	M	Issue No.	47
LM End	10.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.961602 °	38.961602 °	
			-121.546464 °	-121.546464 °	
DWR ID	DWR_RD1001_03_s_2015_47				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	10.99	Rating **	M	Issue No.	20
LM End	11.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.955779 °	38.953640 °	
			-121.548233 °	-121.551024 °	
DWR ID	DWR_RD1001_03_f_2015_20				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	11.08	Rating **	M	Issue No.	1
LM End	11.16	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2015 USACE Erosion Survey, DRAFT		38.955070 °	38.954227 °	
			-121.549528 °	-121.550592 °	
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Large slumped sections of bank. 2012 - Slopes slightly steeper. 2015: Last observed in 2013. [2015 Site ID: BER_1-9_L]					

Photo 1 of 1 : USACE2013A_BER_1-9_L_2.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 03 Bear River	Left	12.58	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	11.23	Rating **	M	Issue No.	22
LM End	11.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.953367 °	38.953025 °	
			-121.551428 °	-121.551808 °	
DWR ID	DWR_RD1001_03_s_2012_22				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	11.59	Rating **	A/W	Issue No.	25
LM End	11.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.951302 °	38.950960 °	
			-121.556872 °	-121.560717 °	
DWR ID	DWR_RD1001_03_s_2013_25				
Action/Comments					
Environmental Requirements.					

Photo 1 of 1 : FA_2015_RD1001_37_25_20151103_00015.jpg



Revegetation site in progress. Spring 2013

LM Start	12.06	Rating **	M	Issue No.	26
LM End	12.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.947748 °	38.947299 °	
			-121.563188 °	-121.563470 °	
DWR ID	DWR_RD1001_03_f_2015_26				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/04/2015 11/04/2015	Maksim Khashchuk

LM Start	12.07	Rating **	M	Issue No.	4
LM End	12.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.947591 °	38.946477 °
				-121.563390 °	-121.564094 °
DWR ID					
Action/Comments					
Inspector Comments: 2006 - Multiple rotational failures in the berm. Erosion is into the levee toe and lower slope. Tension cracks extensive at top of bank. Cohesive toe creates a bench on which failures occur. 2007 - Still steep bank with some berm with pistol-butted reeds. 2012 - Site extended upstream due to additional slumping. Slopes slightly steeper. 2015: Last observed in 2013. [2015 Site ID: BER_0-8_L]					

Photo 1 of 1 : USACE2013A_BER_0-8_L_5.jpg



USACE 2013 Photo #1

LM Start	12.18	Rating **	M	Issue No.	27
LM End	12.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.946248 °	38.946248 °
				-121.564220 °	-121.564220 °
DWR ID	DWR_RD1001_03_s_2012_27				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/04/2015 11/05/2015	Maksim Khashchuk

LM Start	0.39	Rating **	A/W	Issue No.	16
LM End	0.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.935519 °	38.935519 °	
			-121.567042 °	-121.567042 °	
DWR ID	DWR_RD1001_04_f_2015_16				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	0.51	Rating **	N	Issue No.	21
LM End	0.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.933796 °	38.933796 °	
			-121.567047 °	-121.567047 °	
DWR ID	DWR_RD1001_04_f_2015_21				
Action/Comments					
Tree stumps.					

No Photos

LM Start	0.78	Rating **	M	Issue No.	31
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.930026 °	38.930026 °	
			-121.567918 °	-121.567918 °	
DWR ID	DWR_RD1001_04_f_2015_31				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD1001_38_31_20151112_00030.jpg



View of the tall vegetation at the landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/04/2015 11/05/2015	Maksim Khashchuk

LM Start	2.05	Rating **	A/W	Issue No.	39
LM End	2.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.912664 °	38.912664 °	
			-121.572928 °	-121.572928 °	
DWR ID	DWR_RD1001_04_s_2015_39				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	2.44	Rating **	N	Issue No.	33
LM End	2.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.907506 °	38.907506 °	
			-121.575390 °	-121.575390 °	
DWR ID	DWR_RD1001_04_f_2015_33				
Action/Comments					
Tree stumps.					

No Photos

LM Start	2.83	Rating **	M	Issue No.	35
LM End	2.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.903547 °	38.903547 °	
			-121.580444 °	-121.580444 °	
DWR ID	DWR_RD1001_04_f_2015_35				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD1001_38_35_20151112_00031.jpg



View of the firewood at the landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/04/2015 11/05/2015	Maksim Khashchuk

LM Start	5.80	Rating **	M	Issue No.	2
LM End	5.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.874113 °	38.872373 °
DWR ID				-121.615380 °	-121.616504 °
Action/Comments					
Inspector Comments: 2011 - Erosion pockets from tree popouts. Sections of the lower bank have slumped off. 2013 - Scallops from tree popouts no longer visible on site. Minor new erosion at the middle of the bank. 2015: Fresh erosion from human use. [2015 Site ID: FHR_6-6_L]					

Photo 1 of 1 : USACE2013A_FHR_6-6_L_3.jpg



USACE 2013 Photo #1

LM Start	6.42	Rating **	M	Issue No.	5
LM End	6.51	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.865875 °	38.864706 °
DWR ID				-121.619983 °	-121.620813 °
Action/Comments					
Inspector Comments: 2011 - Tall slumping sections. Scour around trees has exposed most of the roots. 2015: Recent large slope failure observed. [2015 Site ID: FHR_6-0_L]					

Photo 1 of 1 : USACE2013A_FHR_6-0_L_3.jpg



USACE 2013 Photo #1

LM Start	6.57	Rating **	M	Issue No.	4
LM End	6.77	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.863946 °	38.861558 °
DWR ID				-121.621388 °	-121.623316 °
Action/Comments					
Inspector Comments: 2011 - Large slumped sections on the lower bank. 2012 - New cracks observed. 2015: No observed changes. [2015 Site ID: FHR_5-8_L]					

Photo 1 of 1 : USACE2013A_FHR_5-8_L_1.jpg



USACE 2013 Photo #1

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/04/2015 11/05/2015	Maksim Khashchuk

LM Start	6.87	Rating **	M	Issue No.	18
LM End	6.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.860127 °	38.860127 °
				-121.624077 °	-121.624077 °
DWR ID	DWR_RD1001_04_s_2015_18				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	7.47	Rating **	M	Issue No.	8
LM End	7.79	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.852394 °	38.848004 °
				-121.629231 °	-121.630873 °
DWR ID					
Action/Comments					
Inspector Comments: 2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011 - Minimal new erosion. 2012 - Site extended on the upstream end, new tree pop-out, and bank erosion continues to worsen. 2013 - Minor new erosion at the toe and top of bank. 2015: No observed changes. [2015 Site ID: FHR_5-0_L]					

Photo 1 of 1 : USACE2013A_FHR_5-0_L_1.jpg



USACE 2013 Photo #1

LM Start	7.56	Rating **	M	Issue No.	42
LM End	7.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.851080 °	38.851080 °
				-121.629217 °	-121.629217 °
DWR ID	DWR_RD1001_04_s_2015_42				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/04/2015 11/05/2015	Maksim Khashchuk

LM Start	7.60	Rating **	M	Issue No.	36
LM End	7.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.850521 °	38.850521 °	
			-121.629423 °	-121.629423 °	
DWR ID	DWR_RD1001_04_f_2015_36				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Ramp has vertical cut into the levee prism.					

No Photos

LM Start	7.66	Rating **	M	Issue No.	56
LM End	7.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.849621 °	38.849621 °	
			-121.629685 °	-121.629685 °	
DWR ID	DWR_RD1001_04_f_2015_56				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Vertical cut into the landside levee slope from the ramp.					

No Photos

LM Start	8.57	Rating **	M	Issue No.	7
LM End	8.97	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2015 USACE Erosion Survey, DRAFT		38.836966 °	38.831498 °	
			-121.634128 °	-121.636371 °	
DWR ID					
Action/Comments					
Inspector Comments: 2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011 - Site combined with 3.6. Minimal new erosion. 2013 - New erosion observed at bank toe. Trees on site now have exposed roots. 2015: No observed changes. [2015 Site ID: FHR_3-8_L]					

Photo 1 of 1 : USACE2013A_FHR_3-8_L_2.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/04/2015 11/05/2015	Maksim Khashchuk

LM Start	8.65	Rating **	M	Issue No.	12
LM End	8.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.835766 °	38.834778 °	
			-121.633966 °	-121.634316 °	
DWR ID	DWR_RD1001_04_s_2012_12				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	9.44	Rating **	M	Issue No.	45
LM End	9.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.825008 °	38.825008 °	
			-121.639361 °	-121.639361 °	
DWR ID	DWR_RD1001_04_s_2015_45				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	9.92	Rating **	C	Issue No.	46
LM End	9.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.818287 °	38.818287 °	
			-121.638894 °	-121.638894 °	
DWR ID	DWR_RD1001_04_s_2015_46				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/04/2015 11/05/2015	Maksim Khashchuk

LM Start	10.72	Rating **	M	Issue No.	47
LM End	10.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.807638 °	38.807638 °	
			-121.633675 °	-121.633675 °	
DWR ID	DWR_RD1001_04_s_2015_47				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	10.88	Rating **	M	Issue No.	48
LM End	10.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.805312 °	38.805312 °	
			-121.633300 °	-121.633300 °	
DWR ID	DWR_RD1001_04_s_2015_48				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	11.01	Rating **	M	Issue No.	55
LM End	11.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.803458 °	38.803458 °	
			-121.632843 °	-121.632843 °	
DWR ID	DWR_RD1001_04_f_2015_55				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/04/2015 11/05/2015	Maksim Khashchuk

LM Start	11.07	Rating **	M	Issue No.	22
LM End	11.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.802508 °	38.802508 °	
			-121.632862 °	-121.632862 °	
DWR ID	DWR_RD1001_04_s_2012_22				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	11.10	Rating **	M	Issue No.	49
LM End	11.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.802092 °	38.802092 °	
			-121.632753 °	-121.632753 °	
DWR ID	DWR_RD1001_04_s_2015_49				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	11.18	Rating **	M	Issue No.	6
LM End	11.37	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2015 USACE Erosion Survey, DRAFT		38.800920 °	38.798165 °	
			-121.633050 °	-121.631939 °	
DWR ID					
Action/Comments					
Inspector Comments: 2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 - Some new block failures (10ft deep) at the toe of the upstream end. 2007 - Some minor new slumping at the waterline. 2013 - Minor new erosion along the bank toe. 2015: No observed changes. [2015 Site ID: FHR_1-0_L]					

Photo 1 of 1 : USACE2013A_FHR_1-0_L_2.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/04/2015 11/05/2015	Maksim Khashchuk

LM Start	11.20	Rating **	M	Issue No.	51
LM End	11.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.800697 °	38.800697 °	
			-121.632382 °	-121.632382 °	
DWR ID	DWR_RD1001_04_s_2015_51				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	11.24	Rating **	M	Issue No.	23
LM End	11.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.800112 °	38.800112 °	
			-121.632242 °	-121.632242 °	
DWR ID	DWR_RD1001_04_s_2012_23				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	11.38	Rating **	M	Issue No.	53
LM End	11.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.798294 °	38.798294 °	
			-121.631328 °	-121.631328 °	
DWR ID	DWR_RD1001_04_s_2015_53				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/04/2015 11/05/2015	Maksim Khashchuk

LM Start	12.32	Rating **	M	Issue No.	24
LM End	12.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.787355 °	38.786507 °	
			-121.621165 °	-121.619837 °	
DWR ID	DWR_RD1001_04_s_2012_24				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	12.65	Rating **	M	Issue No.	26
LM End	13.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.784513 °	38.781862 °	
			-121.616045 °	-121.607855 °	
DWR ID	DWR_RD1001_04_s_2012_26				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	12.66	Rating **	M	Issue No.	59
LM End	13.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.784655 °	38.782735 °	
			-121.615818 °	-121.609207 °	
DWR ID	DWR_RD1001_04_f_2015_59				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/04/2015 11/05/2015	Maksim Khashchuk

LM Start	12.67	Rating **	M	Issue No.	11
LM End	13.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.784579 °	38.782150 °	
			-121.615689 °	-121.607918 °	
DWR ID	DWR_RD1001_04_f_2013_11				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	12.82	Rating **	M	Issue No.	151
LM End	12.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.783930 °	38.783930 °	
			-121.612952 °	-121.612952 °	
DWR ID	DWR_RD1001_04_s_2012_151				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD1001_38_151_20151103_00024.jpg



Trees need to be trimmed up at least 5 feet. Spring 2013

LM Start	13.13	Rating **	M	Issue No.	58
LM End	13.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.782172 °	38.782172 °	
			-121.607842 °	-121.607842 °	
DWR ID	DWR_RD1001_04_f_2015_58				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	11/05/2015 11/05/2015	Maksim Khashchuk

LM Start	0.84	Rating **	A/W	Issue No.	18
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.794589 °	38.794589 °	
			-121.590603 °	-121.590603 °	
DWR ID	DWR_RD1001_05_s_2015_18				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2015_RD1001_39_18_20151103_00015.jpg



View of the cracks from erosion on the waterside of the levee facing upstream.

LM Start	1.33	Rating **	A	Issue No.	17
LM End	1.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.795275 °	38.795275 °	
			-121.589482 °	-121.589482 °	
DWR ID	DWR_RD1001_05_f_2015_17				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2015_RD1001_39_17_20151112_00019.jpg



View of the acceptable vegetation control on the landside levee slope.

LM Start	2.31	Rating **	M	Issue No.	1
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2015 USACE Erosion Survey, DRAFT		38.803877 °	38.804206 °	
			-121.575053 °	-121.574529 °	
DWR ID					
Action/Comments					
Inspector Comments: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.5. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: NCC_3-0_R]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	11/05/2015 11/05/2015	Maksim Khashchuk

LM Start	2.05	Rating **	M	Issue No.	8
LM End	2.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.860002 °	38.860002 °	
			-121.524873 °	-121.524873 °	
DWR ID	DWR_RD1001_06_s_2012_8				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Subsidence due to traffic across levee crown.					



RD 1001 Unit 6 - Levee Crown - Subsidence due to vehicle traffic.

LM Start	2.92	Rating **	M	Issue No.	17
LM End	2.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.872524 °	38.872524 °	
			-121.524808 °	-121.524808 °	
DWR ID	DWR_RD1001_06_s_2015_17				
Action/Comments					
Debris					

No Photos

LM Start	4.04	Rating **	M	Issue No.	7
LM End	4.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.888821 °	38.888821 °	
			-121.524733 °	-121.524733 °	
DWR ID	DWR_RD1001_06_s_2012_7				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Levee crown subsided due to vehicle traffic across crown.					



RD 1001 Unit 6 - Levee Crown - Subsidence due to vehicle traffic.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	11/05/2015 11/05/2015	Maksim Khashchuk

LM Start	4.33	Rating **	M	Issue No.	19
LM End	4.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.893045 °	38.893045 °	
			-121.524701 °	-121.524701 °	
DWR ID	DWR_RD1001_06_f_2013_19				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Levee crown subsided due to vehicle traffic across crown.					

Photo 1 of 1 : FA_2015_RD1001_40_19_20151103_00006.jpg



This photo was taken from the levee crown facing north looking at subsidence due to vehicle traffic across crown. Fall 2013.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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