

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/22/2015 04/22/2015	Herman Phillips

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			o	o
DWR ID	DWR_RD2060_01_f_2014_4				
Action/Comments					
Inspector Comments: RD 2060 has the O&M Manual on file.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			o	o
DWR ID	DWR_RD2060_01_f_2014_7				
Action/Comments					
Inspector Comments: RD 2060 has emergency supplies on hand.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			o	o
DWR ID	DWR_RD2060_01_s_2012_12				
Action/Comments					
Inspector Comments: RD 2060 has trained staff for a flood fight.					

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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Unit No. 01 Lindsey Slough	Left	6.97	04/22/2015 04/22/2015	Herman Phillips

LM Start	0.05	Rating **	A	Issue No.	5
LM End	6.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.247298 °	38.274875 °	
			-121.697150 °	-121.794847 °	
DWR ID	DWR_RD2060_01_s_2015_5				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.05	Rating **	A	Issue No.	3
LM End	6.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.247298 °	38.274875 °	
			-121.697150 °	-121.794847 °	
DWR ID	DWR_RD2060_01_s_2015_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD2060_241_3_20150603_00002.jpg



RD 2060 looking downstream landside levee slope.

LM Start	0.57	Rating **	M	Issue No.	14
LM End	0.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.248630 °	38.248617 °	
			-121.706403 °	-121.706667 °	
DWR ID	DWR_RD2060_01_s_2015_14				
Action/Comments					
Note and monitor erosion site. Inspector Comments: District has placed some more rock in this area, they will place more later. 3-08-2011 viewed the erosion site, this site is still active. The district says that they will make repairs end of April or May 2011.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/22/2015 04/22/2015	Herman Phillips

LM Start	1.86	Rating **	C	Issue No.	1
LM End	1.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.256535 °	38.257517 °
				-121.724753 °	-121.724823 °
DWR ID	DWR_RD2060_01_f_2014_1				
Action/Comments					
Inspector Comments: 2011 - Multiple erosion pockets. Deep cracks throughout site could lead to further bank failure. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: LDS_1-9_L]					

No Photos

LM Start	1.87	Rating **	C	Issue No.	13
LM End	1.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.256664 °	38.256664 °
				-121.724536 °	-121.724536 °
DWR ID	DWR_RD2060_01_s_2013_13				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: It appears that this site is also active. Spring inspection 2013.					

No Photos

LM Start	1.87	Rating **	C	Issue No.	16
LM End	1.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.256766 °	38.256766 °
				-121.724552 °	-121.724552 °
DWR ID	DWR_RD2060_01_s_2013_16				
Action/Comments					
Note and monitor erosion site. Inspector Comments: At this location the material is soft and this site is much like the one at L/M 1.90 and L/M 1.91. District is aware of the sites and repairs are being planed.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/22/2015 04/22/2015	Herman Phillips

LM Start	1.90	Rating **	C	Issue No.	9
LM End	1.90	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.256664 °	38.256664 °	
			-121.721535 °	-121.721535 °	
DWR ID	DWR_RD2060_01_s_2013_9				
Action/Comments					
Note and monitor erosion site. Inspector Comments: District has plans to bring material to be placed at site along with more rock, stated during the inspection 3-28-2013.					

No Photos

LM Start	2.44	Rating **	C	Issue No.	2
LM End	2.47	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	USACE Erosion Survey		38.257224 °	38.257319 °	
			-121.731953 °	-121.732423 °	
DWR ID	DWR_RD2060_01_f_2014_2				
Action/Comments					
Inspector Comments: 2011 - Two erosion pockets from rotational failures. Very soft soil. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: LDS_2-4_L]					

No Photos

LM Start	2.45	Rating **	C	Issue No.	18
LM End	2.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.257407 °	38.257407 °	
			-121.732002 °	-121.732002 °	
DWR ID	DWR_RD2060_01_s_2013_18				
Action/Comments					
Note and monitor erosion site.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/22/2015 04/22/2015	Herman Phillips

LM Start	5.08	Rating **	M	Issue No.	6
LM End	5.08	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Repair Gates		38.263157 °	38.263157 °	
			-121.771543 °	-121.771543 °	
DWR ID	DWR_RD2060_01_s_2012_6				
Action/Comments					

No Photos

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Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/22/2015 04/22/2015	Herman Phillips

LM Start	0.00	Rating **	A	Issue No.	10
LM End	3.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.274841 °	38.296651 °	
			-121.794855 °	-121.748801 °	
DWR ID	DWR_RD2060_02_f_2014_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Looking downstream from landside slope.					

Photo 1 of 1 : SP_2015_RD2060_242_10_20150603_00006.jpg



Looking downstream from landside levee slope.

LM Start	0.71	Rating **	A	Issue No.	11
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.285010 °	38.296672 °	
			-121.795898 °	-121.748762 °	
DWR ID	DWR_RD2060_02_s_2015_11				
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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Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/22/2015 04/22/2015	Herman Phillips

LM Start	0.08	Rating **	M	Issue No.	14
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.296283 °	38.296283 °	
			-121.747450 °	-121.747448 °	
DWR ID	DWR_RD2060_03_s_2015_14				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD2060_243_14_20150603_00011.jpg



View of the vegetation on the levee slopes.

LM Start	1.52	Rating **	M	Issue No.	10
LM End	1.74	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	USACE Erosion Survey		38.288598 °	38.286051 °	
			-121.725184 °	-121.722818 °	
DWR ID	DWR_RD2060_03_f_2014_10				
Action/Comments					
Inspector Comments: Site added in 1997 and removed in 2003. 2005 - Put back in the inventory. 2006 - Stone repair at the middle of the site. 2011 - Some rock place at toe in the past year. 2013: Site extended both upstream and downstream to include new erosion pockets. [2013 Site ID: CHS_23-6_R]					

Photo 1 of 1 : SP_2015_RD2060_243_10_20150312_00007.jpg



USACE 2013 Photo #1

LM Start	1.62	Rating **	M	Issue No.	15
LM End	5.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.287267 °	38.247618 °	
			-121.724320 °	-121.696205 °	
DWR ID	DWR_RD2060_03_s_2015_15				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side 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 Cache Slough	Right	5.03	04/22/2015 04/22/2015	Herman Phillips

LM Start	1.76	Rating **	M	Issue No.	16
LM End	5.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.285615 °	38.247490 °	
			-121.722803 °	-121.696233 °	
DWR ID	DWR_RD2060_03_s_2015_16				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	2.02	Rating **	M	Issue No.	9
LM End	2.08	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	USACE Erosion Survey		38.284105 °	38.283302 °	
			-121.718471 °	-121.717814 °	
DWR ID	DWR_RD2060_03_f_2014_9				
Action/Comments					
Inspector Comments: 2010 - Small maintenance site. 2013: No observed changes. [2013 Site ID: CHS_23-0_R]					

Photo 1 of 1 : SP_2015_RD2060_243_9_20150312_00006.jpg



USACE 2013 Photo #1

LM Start	2.12	Rating **	M	Issue No.	8
LM End	2.17	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	USACE Erosion Survey		38.282847 °	38.282245 °	
			-121.717549 °	-121.717058 °	
DWR ID	DWR_RD2060_03_f_2014_8				
Action/Comments					
Inspector Comments: 2013: Pockets of erosion behind willows. [2013 Site ID: CHS_22-9_R]					

Photo 1 of 1 : SP_2015_RD2060_243_8_20150312_00005.jpg



USACE 2013 Photo #1

* Location LS : Land Side 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 Cache Slough	Right	5.03	04/22/2015 04/22/2015	Herman Phillips

LM Start	2.18	Rating **	M	Issue No.	6
LM End	2.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.282069 °	38.281482 °
				-121.716891 °	-121.716356 °
DWR ID	DWR_RD2060_03_f_2014_6				
Action/Comments					
Inspector Comments: 2007 - Geotechnical failure of midside slope and wave wash/scalloping in toe area. Stone revetment upstream and downstream of site. Similar sites are present all along the right bank downstream of this site, most could be repaired with some maintenance. 2010 - Minor new erosion. 2013: No observed changes. [2013 Site ID: CHS_22-8_R]					

Photo 1 of 1 : SP_2015_RD2060_243_6_20150312_00004.jpg



USACE 2013 Photo #1

LM Start	2.35	Rating **	M	Issue No.	5
LM End	2.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.280356 °	38.278214 °
				-121.714697 °	-121.712857 °
DWR ID	DWR_RD2060_03_f_2014_5				
Action/Comments					
Inspector Comments: 2008 - Small scour pockets and mid-slope wave wash. 2010 - More vegetation growth, could be fixed through maintenance. 2011 - Site extended downstream and new erosion. 2013: No observed changes. [2013 Site ID: CHS_22-6_R]					

Photo 1 of 1 : SP_2015_RD2060_243_5_20150312_00003.jpg



USACE 2013 Photo #1

LM Start	2.55	Rating **	M	Issue No.	4
LM End	2.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.278109 °	38.277754 °
				-121.712671 °	-121.712144 °
DWR ID	DWR_RD2060_03_f_2014_4				
Action/Comments					
Inspector Comments: 2013: Erosion pockets into the levee toe. [2013 Site ID: CHS_22-5_R]					

Photo 1 of 1 : SP_2015_RD2060_243_4_20150312_00002.jpg



USACE 2013 Photo #1

* Location LS : Land Side 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 Cache Slough	Right	5.03	04/22/2015 04/22/2015	Herman Phillips

LM Start	3.78	Rating **	M	Issue No.	1
LM End	4.09	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.264585 °	38.260593 °
				-121.698868 °	-121.696403 °
DWR ID	DWR_RD2060_03_f_2014_1				
Action/Comments					
Inspector Comments: 2011 - Several pockets of erosion from rotational failure and slumping toe. 2013: Site extended downstream to include new erosion pockets. [2013 Site ID: CHS_21-1_R]					

Photo 1 of 1 : SP_2015_RD2060_243_1_20150312_00001.jpg



USACE 2013 Photo #1

* 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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