

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Spring 2020 Levee Inspection Results**

**Reclamation District No. 2107 Mossdale Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

**FALL INSPECTIONS:** The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2020 Levee Inspection Results**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Left	2.33

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/17/2020 - 3/17/2020			
DWR Inspector	Alberto De Leon			
Accompanied By	Robert Brown RD2107			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/17/2020 03/17/2020	Alberto De Leon

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training		o	o	o
DWR ID	DWR_RD2107_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA has flood fight training and an emergency response plan.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment		o	o	o
DWR ID	DWR_RD2107_01_s_2013_7				
Comment Code					
Inspector Comment					
Flood fighting supplies are available on-site.					

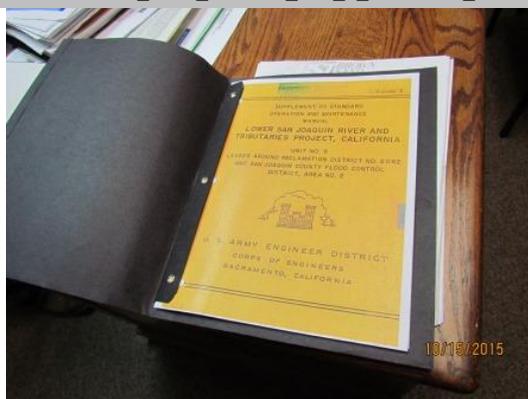
Photo 1 of 1 : SP\_2020\_RD2107\_329\_7\_20200228\_00001.jpg



View of the flood fight emergency supplies.

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals		o	o	o
DWR ID	DWR_RD2107_01_s_2013_8				
Comment Code					
Inspector Comment					
The O&M Manual is available at the LMA's office.					

Photo 1 of 1 : SP\_2020\_RD2107\_329\_8\_20200228\_00002.jpg



View of the O&M Manual.

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

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/17/2020 03/17/2020	Alberto De Leon

LM Start	<b>0.26</b>	Rating **	M	Issue No.	<b>22</b>
LM End	<b>0.36</b>	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.784342 °	37.783268 °	
			-121.306528 °	-121.305165 °	
DWR ID	DWR_RD2107_01_f_2019_22				
Comment Code					
DE : Debris					
Inspector Comment					
Trash and debris are common on the waterside slope. RD coordinates with local law enforcement to minimize encroachments.					

Photo 1 of 1 : SP\_2020\_RD2107\_329\_22\_20200228\_00008.jpg



View of debris on waterside slope. Fall 2019

LM Start	<b>0.27</b>	Rating **	M	Issue No.	<b>28</b>
LM End	<b>0.27</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.784194 °	37.784194 °	
			-121.306353 °	-121.306353 °	
DWR ID	19055				
Comment Code					
Inspector Comment					
DS_ID:19055 FS_ID:16188 EP_NO: 12101B Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 4" electrical conduit through the levee 2.5 feet below the crown. Distribution panel on a 5-foot by 6-foot concrete pad on the WS shoulder (Permit No 12101B, 1979). FS Date: 5/21/2013					

Photo 1 of 1 : UCIP\_SP\_2020\_16188\_27296.jpg



5X5 concrete pad with exposed electrical conduit on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/17/2020 03/17/2020	Alberto De Leon

LM Start	<b>0.32</b>	Rating **	M	Issue No.	<b>20</b>
LM End	<b>0.32</b>	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.783649 °	37.783649 °	
			-121.305710 °	-121.305710 °	
DWR ID	DWR_RD2107_01_f_2015_20				
Comment Code					
BU : Building					
Inspector Comment					
Building in the floodway may impede flood flows.					

Photo 1 of 1 : SP\_2020\_RD2107\_329\_20\_20200228\_00007.jpg



View of the building in the floodway.

LM Start	<b>0.68</b>	Rating **	M	Issue No.	<b>29</b>
LM End	<b>0.68</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.779486 °	37.779486 °	
			-121.301961 °	-121.301961 °	
DWR ID	19036				
Comment Code					
Inspector Comment					
DS_ID:19036 FS_ID:13684 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Wooden walkway to pump on platform is in disrepair and may be a hazard. FIELD_STRUCT_DESC: 1 of 2: 14-inch irrigation pipe of an unknown material through the levee, 17 feet below the crown. Pump on pile structure in the stream. Walkway to pump. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. 36-inch concrete standpipe at the landside (LS) toe. Service pole and circuit panel on the LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 9, April 1964, (HLM 0.68), 12-inch pipe listed]. FS Date: 5/21/2013					

Photo 1 of 3 : UCIP\_SP\_2020\_13684\_22411.jpg



Pier and 48-inch CMP riser on WS shoulder

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

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/17/2020 03/17/2020	Alberto De Leon

LM Start	<b>1.23</b>	Rating **	C	Issue No.	<b>17</b>
LM End	<b>1.23</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.774123 °	37.774123 °	
			-121.307189 °	-121.307189 °	
DWR ID	DWR_RD2107_01_s_2012_17				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	<b>1.30</b>	Rating **	C	Issue No.	<b>23</b>
LM End	<b>1.44</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.773175 °	37.772009 °	
			-121.307068 °	-121.305187 °	
DWR ID	DWR_RD2107_01_f_2019_23				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	<b>1.34</b>	Rating **	A/W	Issue No.	<b>15</b>
LM End	<b>1.45</b>	Issue Type +	Ob	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Seepage / Sandboils		37.772704 °	37.771910 °	
			-121.306793 °	-121.304990 °	
DWR ID	208-4				
Comment Code					
Inspector Comment					
In 1997 there was heavy seepage at this location. In 2017 there was no seepage observed at this location. This is a 2017 Storm Damage site. Site ID No:111 Site Designation: 208-4					

Photo 1 of 1 : SP\_2020\_RD2107\_329\_15\_20200228\_00003.jpg



View of the historic seepage site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/17/2020 03/17/2020	Alberto De Leon

LM Start	<b>1.45</b>	Rating **	M	Issue No.	<b>31</b>
LM End	<b>1.45</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.771939 °	37.771939 °	
			-121.305063 °	-121.305063 °	
DWR ID	19031				
Comment Code					
Inspector Comment					
DS_ID:19031 FS_ID:13667 EP_NO: 12790 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Verify with electricity provider that electric service is overhead and not through the levee. FIELD_STRUCT_DESC: 1 of 3: Possible electrical conduit of an unknown size or material through the levee, at an unknown depth. Overhead power line on site likely installed instead of the underground conduit. (Permit No. 12790, 1980 - [owner not indicated in permit database]). FS Date: 5/21/2013					

No Photos

LM Start	<b>1.47</b>	Rating **	M	Issue No.	<b>32</b>
LM End	<b>1.47</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.771735 °	37.771735 °	
			-121.304847 °	-121.304847 °	
DWR ID	19040				
Comment Code					
Inspector Comment					
DS_ID:19040 FS_ID:13650 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No pump. Appears abandoned. Large hole under pipe on WS slope from animal activity. FIELD_STRUCT_DESC: 1 of 2: 18-inch polyvinyl chloride (PVC) irrigation pipe through the levee, 2.5 feet below the crown. Pump on pile structure in the stream. Walkway to the pump. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.49)]. FS Date: 5/21/2013					

Photo 1 of 3 : UCIP\_SP\_2020\_13650\_22341.jpg



Pumping plant on metal pier on WS toe.

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**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/17/2020 03/17/2020	Alberto De Leon

LM Start	<b>1.47</b>	Rating **	M	Issue No.	<b>33 (cont)</b>
LM End	<b>1.47</b>	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.771735 °	37.771735 °
				-121.304847 °	-121.304847 °
DWR ID	23106				

Photo 3 of 3 : UCIP\_SP\_2020\_15179\_24933.jpg



Pipe open at pump on platform on WS.

LM Start	<b>1.49</b>	Rating **	C	Issue No.	<b>14</b>
LM End	<b>1.49</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.771407 °	37.771407 °
				-121.304794 °	-121.304794 °
DWR ID	DWR_RD2107_01_s_2019_14				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	<b>1.60</b>	Rating **	A	Issue No.	<b>16</b>
LM End	<b>1.60</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.769940 °	37.769940 °
				-121.304865 °	-121.304865 °
DWR ID	DWR_RD2107_01_s_2020_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_RD2107\_329\_16\_20200318\_00027.jpg



Typical view of well maintained landside slope vegetation. Spring 2020

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

**Unit Cover Sheet**

**Spring 2020 Levee Inspection Results**

**Reclamation District No. 2107 Mossdale Island**

Waterway		Bank	Unit Miles
Unit No. 02 Paradise Cut		Right	1.82
	Spring (March - May)	Summer (June - August)	(September - November) Fall
Unit Maintenance Rating (Fall Only)			
Date of Inspection	3/17/2020 - 3/17/2020		
DWR Inspector	Alberto De Leon		
Accompanied By	Robert Brown RD2107		

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

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*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/17/2020 03/17/2020	Alberto De Leon

LM Start	<b>0.28</b>	Rating **	A	Issue No.	<b>4</b>
LM End	<b>0.28</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.762685 °	37.762685 °	
			-121.313565 °	-121.313565 °	
DWR ID	DWR_RD2107_02_s_2020_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained.					

Photo 1 of 1 : SP\_2020\_RD2107\_330\_4\_20200318\_00010.jpg



Typical view of well maintained vegetation on landside slope. Spring 2020

LM Start	<b>0.28</b>	Rating **	A	Issue No.	<b>5</b>
LM End	<b>0.28</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.762686 °	37.762686 °	
			-121.313565 °	-121.313565 °	
DWR ID	DWR_RD2107_02_s_2020_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained.					

Photo 1 of 1 : SP\_2020\_RD2107\_330\_5\_20200318\_00011.jpg



View of typical well maintained vegetation on waterside slope. Spring 2020

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

**Levee Inspection Report By Mile - Spring 2020**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/17/2020 03/17/2020	Alberto De Leon

LM Start	<b>1.51</b>	Rating **	<b>U</b>	Issue No.	<b>9</b>
LM End	<b>1.51</b>	Issue Type +	<b>En</b>	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.774130 °	37.774130 °	
			-121.329896 °	-121.329896 °	
DWR ID	19056				
Comment Code					
Inspector Comment					
<p>DS_ID:19056                  FS_ID:53388                  EP_NO: 2966                  Repair Type: Urgent                  Crossing Status: Found                  UCIP Comments: 10/10/2018 A temporary flexible pvc pipe installed at this location. Although the levee looks to be in good condition, keeping Urgent due to the temporary nature of this pipe and the need for follow up due to potential levee threat (D. Sanoski - DWR UCIP).11/29/2017 Received update from DWR levee inspector M. Khashchuk and pipe is visible on WS toe with flap gate open: back filled during high winter flow to prevent erosion (no photos are available of back fill work). No updates were provided regarding repairs to the sink hole located on LS toe or internal inspection of pipe through the levee, pipe crossing remains urgent. (DWR UCIP - O. Magana)11/16/2016 Visible hole through pipe visible on WS end. Sink hole present at the LS ditch. Evidence of pipe repair visible on LS (see photos) however, no permit was found to document the work. Need to contact owner to determine permit authorizing work. Due to the hole in the pipe recommend internal inspection of the pipe through the levee to determine pipe integrity. (O. Magana - DWR UCIP)05/22/2013 Headwall around pipe at LS toe is failing and should be shored up. Flap gate propped open and should be returned to normal function. (W. Wylie - DWR UCIP)                  FIELD_STRUCT_DESC: 24-inch steel drainage pipe through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end of the pipe. Two standard reinforced concrete cutoff walls around the pipe in line with the levee shoulders. (Permit No. 2966, 1958 - Dell'Osso Brothers).                  FS Date: 10/10/2018 2:37:00 PM</p>					

Photo 1 of 3 : UCIP\_SP\_2020\_53388\_22441.jpg



Pipe visible on WS toe with Flap gate open.

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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/17/2020 03/17/2020	Alberto De Leon

LM Start	<b>1.51</b>	Rating **	<b>U</b>	Issue No.	<b>9 (cont)</b>
LM End	<b>1.51</b>	Issue Type +	<b>En</b>	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.774130 °	37.774130 °
				-121.329896 °	-121.329896 °
DWR ID	19056				

Photo 2 of 3 : UCIP\_SP\_2020\_53388\_22440.jpg



Pipes visible under foliage on WS toe.

LM Start	<b>1.51</b>	Rating **	<b>U</b>	Issue No.	<b>9 (cont)</b>
LM End	<b>1.51</b>	Issue Type +	<b>En</b>	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_53388\_22439.jpg



Headwall failing at drainage ditch on LS toe.

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