

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Reclamation District No. 2096 Wetherbee Lake

Wetherbee Lake Pumping Plant & Navigation Gate

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	M
	Cranes	N
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	M
	Trash Rakes	N
	Sluice / Slide Gates	N
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	A
	Security Fencing	A
Intake and Discharge Pipes	A	

Flood Control Project Maintenance**Unit Cover Sheet****2014 Pumping Plant Inspection Results****Reclamation District No. 2096 Wetherbee Lake**

Pumping Plant
Wetherbee Lake Pumping Plant & Navigation Gate

Pumping Plant Rating	A
Date of Inspection	08/06/2014
DWR Inspector	Maksim Khashchuk
Accompanied By	Randy Barker RD-2096 Wetherbee Lake

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Reclamation District No. 2096 Wetherbee Lake

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		08/06/2014 08/06/2014	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Operating Log		37.773864 °	37.773864 °	
			-121.298427 °	-121.298427 °	
DWR ID	DWR_RD2096_56_t_2012_1				
Action/Comments					
Inspector Comments: O&M log presented at time of inspection					

Photo 1 of 1 : ST_2014_RD2096_56_1_20140807_00010.jpg



View of the Operating Log and O&M Manual.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Operation & Maintenance Manual		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_2				
Action/Comments					
Inspector Comments: O&M manual was present at time of inspection. LMA is in procees of creating posted operating instructions at pump station.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Plant Building		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_3				
Action/Comments					
Inspector Comments: Building protects the controls only.					

Photo 1 of 1 : ST_2014_RD2096_56_3_20140807_00011.jpg



View of the pumping facility and navigation gate.

* 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Reclamation District No. 2096 Wetherbee Lake

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		08/06/2014 08/06/2014	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Communications		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_4				
Action/Comments					
Inspector Comments: Trustee has cellular phone.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Safety		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_5				
Action/Comments					
Inspector Comments: Missing guard rail on navigation canal.					

Photo 1 of 1 : ST_2014_RD2096_56_5_20140807_00012.jpg



View of the missing guard rail.

LM Start	0.00	Rating **	N	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Cranes		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_6				
Action/Comments					
Inspector Comments: Item does not apply, cranes are not present on site.					

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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Reclamation District No. 2096 Wetherbee Lake

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		08/06/2014 08/06/2014	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Pumps		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_7				
Action/Comments					
Inspector Comments: Pumps appear to be in working order.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Power		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_8				
Action/Comments					
Inspector Comments: No electrical deficiencies observed. Backup generators can be brought in on an emergency basis.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Motors, Engines, Fans & Gear Reducers		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_10				
Action/Comments					
Inspector Comments: All items appear operational.					

Photo 1 of 1 : ST_2014_RD2096_56_10_20140807_00013.jpg



View of the pump motors and electrical panel.

* 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Reclamation District No. 2096 Wetherbee Lake

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		08/06/2014 08/06/2014	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Pump Control Systems		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_11				
Action/Comments					
Inspector Comments: Controls are free of damage and appear to operate normally.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Sumps/Wet Well		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_12				
Action/Comments					
Inspector Comments: Sump is clear of debris.					

Photo 1 of 1 : ST_2014_RD2096_56_12_20140807_00014.jpg



View of the pump intake system. Note the missing grate at top left corner.

LM Start	0.00	Rating **	M	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Trash Racks		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_13				
Action/Comments					
Inspector Comments: Trash rack is present, however one panel is missing from rack.					

Photo 1 of 1 : ST_2014_RD2096_56_13_20140630_00006.jpg



Section of trash rack is missing, missing section would be in upper left of photo.

* 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Reclamation District No. 2096 Wetherbee Lake

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		08/06/2014 08/06/2014	Maksim Khashchuk

LM Start	0.00	Rating **	N	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Trash Rakes		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_14				
Action/Comments					
Inspector Comments: No trash rake present.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Sluice / Slide Gates		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_15				
Action/Comments					
Inspector Comments: No slide gates present					

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Electric Gate Operators		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_16				
Action/Comments					
Inspector Comments: Item appears to be in good working condition. Radial arm gate was open at time of inspection.					

Photo 1 of 2 : ST_2014_RD2096_56_16_20140807_00015.jpg



View of the gate controls.

* 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Reclamation District No. 2096 Wetherbee Lake

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		08/06/2014 08/06/2014	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	16 (cont)
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_16				
Action/Comments					
Inspector Comments: Item appears to be in good working condition. Radial arm gate was open at time of inspection.					

Photo 2 of 2 : ST_2014_RD2096_56_16_20140807_00016.jpg



View of the radial arm gate in the open position.

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_17				
Action/Comments					
Inspector Comments: Manual gate operators appear to be maintained and in good working order.					

Photo 1 of 1 : ST_2014_RD2096_56_17_20140807_00017.jpg



View of the manual gate operation control.

LM Start	0.00	Rating **	A	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_18				
Action/Comments					
Inspector Comments: Other exposed metal items are painted or coated to prevent corrosion.					

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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

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Wetherbee Lake Pumping Plant & Navigation Gate		08/06/2014 08/06/2014	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Flap Gates		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_19				
Action/Comments					
Inspector Comments: Flap gates appear to be fully operational.					

Photo 1 of 1 : ST_2014_RD2096_56_19_20140807_00018.jpg



View of the flapgates.

LM Start	0.00	Rating **	A	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Closure Structures		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_20				
Action/Comments					
Inspector Comments: Radial arm gate acts as closure structure, gate was open at time of inspection.					

Photo 1 of 1 : ST_2014_RD2096_56_20_20140807_00019.jpg



Radial arm gate, shown in open position.

LM Start	0.00	Rating **	A	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Security Fencing		37.773864 °	37.773864 °	
			-121.298430 °	-121.298430 °	
DWR ID	DWR_RD2096_56_t_2012_21				
Action/Comments					
Inspector Comments: Security fencing is in place. Closed circuit cameras are also in place.					

Photo 1 of 1 : ST_2014_RD2096_56_21_20140807_00020.jpg



View of the security fencing around the facility.

* 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Reclamation District No. 2096 Wetherbee Lake

Structure	Structure Length	Inspection Start/End	Inspector
Wetherbee Lake Pumping Plant & Navigation Gate		08/06/2014 08/06/2014	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Intake and Discharge Pipes			37.773864 °	37.773864 °
				-121.298430 °	-121.298430 °
DWR ID	DWR_RD2096_56_t_2012_22				
Action/Comments					
Inspector Comments: Pipes appear to be free of defects.					

No Photos

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