

**Flood Control Project Maintenance**  
**2009 Structure Summary Report**  
**Overall Unit and Item Ratings**

**City of Sacramento**

**El Camino Avenue Bridge**

Overall Unit Rating	Rated Item	Item Rating
<b>A</b>	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	M
	Monolith Joints	A
	Safety	A

**Magpie Creek Pumping Plant**

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

**Flood Control Project Maintenance**  
**Unit Cover Sheet**  
**2009 Structure Inspection Results**

## City of Sacramento

Structure
El Camino Avenue Bridge

Structure Rating	A
Date of Inspection	7/6/2009
DWR Inspector	John Paasch
Accompanied By	Bob Murakami USACE
	Ryan Larson USACE

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2009**

**City of Sacramento**

Structure	Structure Length	Inspection Start/End	Inspector
El Camino Avenue Bridge		08/03/2009 08/03/2009	John Paasch

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1	0.00	0.00	Structures	Photo Documentation			Inspector Comments: W. El Camino bridge is inspected as a structure because the bridge deck is below the design water surface elevation causing the wingwalls and guard railing to act as flood walls during high water events.	38.611100 ° 121.467500 °	38.611100 ° 121.467500 °	Y	1
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: Minimal, scattered obstructions or vegetation. The flow is not impeded.	°	°		2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No visible shoaling or sedimentation present.	°	°		3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No active erosion or bank caving observed on the landward or on the riverward side of the levee near the bridge.	°	°		4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Existing riprap protection is properly maintained and is undamaged.	°	°		5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No Trash, debris, excavation, structures, or other obstructions present within the project easement area.	°	°		6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N		°	°		7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N		°	°		8
9	0.00	0.00	Structures	Metal Pipes		N		°	°		9
10	0.00	0.00	Structures	Trash Racks		N		°	°		10
11	0.00	0.00	Structures	Flap Gates		N		°	°		11
12	0.00	0.00	Structures	Sluice/Slide Gates		N		°	°		12
13	0.00	0.00	Structures	Electric Gate Operators		N		°	°		13
14	0.00	0.00	Structures	Manual Gate Operators		N		°	°		14

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2009**

**City of Sacramento**

Structure	Structure Length	Inspection Start/End	Inspector
El Camino Avenue Bridge		08/03/2009 08/03/2009	John Paasch

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: Negligible spalling, scaling or cracking.	°	°		15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: There are no significant areas of tilting, sliding or settlement that would endanger the integrity of the project.	°	°		16
17	0.00	0.00	Structures	Concrete Foundations		M	Inspector Comments: Minor scouring around the piers and near the abutment on western abutment.	°	°	Y	17
18	0.00	0.00	Structures	Security Fencing		N		°	°		18
19	0.00	0.00	Structures	Closure Structures		N		°	°		19
20	0.00	0.00	Structures	Trash Rakes		N		°	°		20
21	0.00	0.00	Structures	Other Metallic Items		N		°	°		21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: The monolith joint material is in good condition.	°	°		22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No unordinary hazardous conditions that might affect the operation of the structure exist.	°	°		23

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2009**

**City of Sacramento**

Structure	Structure Length	Inspection Start/End	Inspector
El Camino Avenue Bridge		08/03/2009 08/03/2009	John Paasch

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
West El Camino bridge crossing Natomas East Main Drainage Canal	
jpaasch_20090804_10.jpg	



Levee Mile Report Line	17
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Foundations
Photo of concrete piers and abutment.	
jpaasch_20090810_25.jpg	



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**Flood Control Project Maintenance**

**Unit Cover Sheet**

**2009 Pumping Plant Inspection Results**

**City of Sacramento**

Pumping Plant
Magpie Creek Pumping Plant

Pumping Plant Rating	<b>A</b>
Date of Inspection	7/27/2009
DWR Inspector	David Pesavento
Accompanied By	Molly Clark City of Sacramento

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2009**

**City of Sacramento**

Pumping Plant	Structure Length	Inspection Start/End	Inspector
Magpie Creek Pumping Plant		07/27/2009 07/27/2009	David Pesavento

LMR No.	Levee Mile		Category	Item	Location*	Rating**	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1	0.00	0.00	Pump Stations	Operating Log		A	Inspector Comments: City uses an online application to keep track of maintenance performed. Some paper logs at the plant are also kept.	°	°	Y	1
2	0.00	0.00	Pump Stations	Operation & Maintenance Manual		A	Inspector Comments: City keeps a copy in the downtown facility. Inspector requested that a copy be kept at the pump station in the future.	°	°		2
3	0.00	0.00	Pump Stations	Plant Building		A	Inspector Comments: The building has minor cracking, and some electrical items were not operational at the time of the inspection due to upgrades being performed, but the building appeared to be in good repair and able to be safely occupied by equipment and personnel.	°	°	Y	3
4	0.00	0.00	Pump Stations	Communications		A	Inspector Comments: Plant operators have use of the city radio system, cell phones, and a land line in the plant building.	°	°		4
5	0.00	0.00	Pump Stations	Safety		A	Inspector Comments: There do not appear to be any safety hazards that pose a significant hazard to personnel at the plant. Concrete barriers have been placed around the propane tank to protect it from vehicular traffic; a previous concern that has now been corrected.	°	°	Y	5
6	0.00	0.00	Pump Stations	Cranes		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: The pumping plant appears to be in good working order. At the time of the inspection, the OSHA crane permit had expired a few days prior and should be renewed as soon as possible.	°	°	Y	6
7	0.00	0.00	Pump Stations	Pumps		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: The pumps appears to be well maintained and capable of performing as intended.	°	°		7
8	0.00	0.00	Pump Stations	Power		A	Inspector Comments: The power source appears to be reliable and several of the pumps run on propane and diesel fuel, not electricity.	°	°	Y	8
9	0.00	0.00	Pump Stations	Motors, Engines, Fans & Gear Reducers		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Equipment was not observed in operation but appears well maintained and capable of performing as intended.	°	°		9

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2009**

**City of Sacramento**

Pumping Plant	Structure Length	Inspection Start/End	Inspector
Magpie Creek Pumping Plant		07/27/2009 07/27/2009	David Pesavento

LMR No.	Levee Mile		Category	Item	Location*	Rating**	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
10	0.00	0.00	Pump Stations	Pump Control Systems		A	Inspector Comments: The city has an integrated SCADA system for monitoring and controlling the pumps automatically and remotely as well as onsite.	°	°		10
11	0.00	0.00	Pump Stations	Sumps/Wet Well		A	Inspector Comments: The sumps do not have excessive debris and appear capable of passing the flow without damage to the pumps.	°	°	Y	11
12	0.00	0.00	Pump Stations	Trash Racks		A	Inspector Comments: The trash racks appear in good condition and free of significant debris.	°	°		12
13	0.00	0.00	Pump Stations	Trash Rakes		N	Inspector Comments: The trash racks are manually cleared using potato racks at this pump plant.	°	°		13
14	0.00	0.00	Pump Stations	Sluice / Slide Gates		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: The gates at the crown of the levee appeared to be well maintained and able to be open and closed.	°	°		14
15	0.00	0.00	Pump Stations	Electric Gate Operators		N	Inspector Comments: There are no electric operators on the gates at this pump, the gates are either hydraulically or manually operated.	°	°		15
16	0.00	0.00	Pump Stations	Manual Gate Operators		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: The gate operators were not turned during this inspection but appeared to be well maintained and oiled.	°	°	Y	16
17	0.00	0.00	Pump Stations	Other Metallic Items		A	Inspector Comments: All metallic items observed during this inspection appeared to be in good condition and not inhibited by corrosion or rust.	°	°		17
18	0.00	0.00	Pump Stations	Flap Gates		A	Inspector Comments: All flap gates were observed closed and able to prevent backflow. They also appeared to be in good condition and able to function as intended.	°	°	Y	18
19	0.00	0.00	Pump Stations	Closure Structures		N	Inspector Comments: There are no closure structures other than slide gates associate with this structure.	°	°		19
20	0.00	0.00	Pump Stations	Security Fencing		A	Inspector Comments: The security fencing appears to be in resonable repair.	°	°	Y	20

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2009**

**City of Sacramento**

Pumping Plant	Structure Length	Inspection Start/End	Inspector
Magpie Creek Pumping Plant		07/27/2009 07/27/2009	David Pesavento

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
21	0.00	0.00	Pump Stations	Intake and Discharge Pipes		A	Inspector Comments: The intake and discharge pipes appear to be adequately maintained and free of obvious defects.	°	°		21
22	0.00	0.00	Pump Stations	Pressurized Pipe		A	Inspector Comments: All pressurized pipes appear to be in adequate repair. No signs of leaks or erosion due to leaks was observed.	°	°		22

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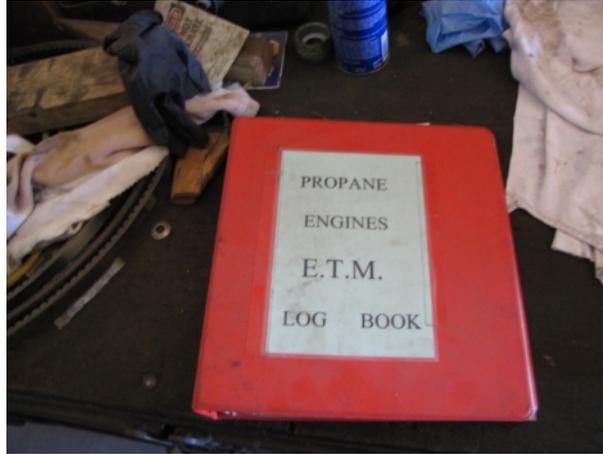
**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2009**

**City of Sacramento**

Pumping Plant	Structure Length	Inspection Start/End	Inspector
Magpie Creek Pumping Plant		07/27/2009 07/27/2009	David Pesavento

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Operating Log
Log book kept for operation of the propane engine powered pumps.	
dpesaven_20090728_1.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building
View of exterior of plant building.	
dpesaven_20090728_2.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building
Additional view of exterior of plant building.	
dpesaven_20090728_3.jpg	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2009**

**City of Sacramento**

Pumping Plant	Structure Length	Inspection Start/End	Inspector
Magpie Creek Pumping Plant		07/27/2009 07/27/2009	David Pesavento

Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Safety
View of the propane tank with recently placed concrete barriers protecting it from vehicular traffic.	
dpesaven_20090728_4.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Cranes
View of the overhead crane in the pumping plant.	
dpesaven_20090728_5.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Power
View of part of the propane tank and the electrical transformers.	
dpesaven_20090728_13.jpg	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2009**

**City of Sacramento**

Pumping Plant	Structure Length	Inspection Start/End	Inspector
Magpie Creek Pumping Plant		07/27/2009 07/27/2009	David Pesavento

Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Sumps/Wet Well
View of the sump under the pump building. There does not appear to be a significant amount of sediment built up under the pump intakes.	
dpesaven_20090728_6.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Sumps/Wet Well
Sump under the pumps to the north of the plant building.	
dpesaven_20090728_7.jpg	



Levee Mile Report Line	16
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Manual Gate Operators
View of two of the gate operators.	
dpesaven_20090728_10.jpg	



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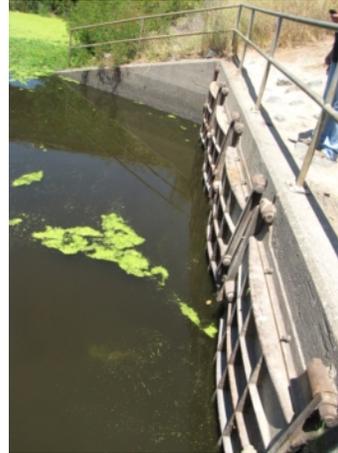
**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2009**

**City of Sacramento**

Pumping Plant	Structure Length	Inspection Start/End	Inspector
Magpie Creek Pumping Plant		07/27/2009 07/27/2009	David Pesavento

Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Flap Gates
Flap gates for from first bank of pumps.	
dpesaven_20090728_8.jpg	



Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Flap Gates
Flap gates for second bank of pumps. The last opening does not have a flap gate as it is for future use and the pipe is currently blocked and not capable of carrying a flow.	
dpesaven_20090728_9.jpg	



Levee Mile Report Line	20
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Security Fencing
View of some of the security fencing around the pumping plant.	
dpesaven_20090728_11.jpg	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2009**

**City of Sacramento**

Pumping Plant	Structure Length	Inspection Start/End	Inspector
Magpie Creek Pumping Plant		07/27/2009 07/27/2009	David Pesavento

Levee Mile Report Line	20
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Security Fencing
Additional view of some of the security fencing around the pumping plant.	
dpesaven_20090728_12.jpg	



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected</p>
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