

Flood Control Project Maintenance
2012 Structure Summary Report
Overall Unit and Item Ratings

Merced Streams Group

Black Rascal Creek Drop Structure

| Overall Unit Rating | Rated Item | Item Rating |
|---------------------|-----------------------------------|-------------|
| A | Photo Documentation | N |
| | Vegetation & Obstructions | M |
| | Shoaling / Sedimentation | A |
| | Erosion / Bank Caving | M |
| | Revetments | N |
| | Encroachments | A |
| | Culverts: Inlets / Outlets | N |
| | Culverts: Breaks / Holes / Cracks | A |
| | Metal Pipes | N |
| | Trash Racks | N |
| | Flap Gates | N |
| | Sluice/Slide Gates | N |
| | Electric Gate Operators | N |
| | Manual Gate Operators | N |
| | Concrete Surfaces | A |
| | Concrete Tilting / Settlement | A |
| | Concrete Foundations | A |
| | Security Fencing | A |
| | Closure Structures | N |
| | Trash Rakes | N |
| | Other Metallic Items | N |
| | Monolith Joints | N |
| | Safety | A |

Flood Control Project Maintenance

2012 Structure Summary Report

Overall Unit and Item Ratings

Merced Streams Group (cont.)

Owens Creek Siphon Structure

| Overall Unit Rating | Rated Item | Item Rating |
|---------------------|-----------------------------------|-------------|
| M | Photo Documentation | N |
| | Vegetation & Obstructions | M |
| | Shoaling / Sedimentation | U |
| | Erosion / Bank Caving | A |
| | Revetments | N |
| | Encroachments | A |
| | Culverts: Inlets / Outlets | U |
| | Culverts: Breaks / Holes / Cracks | A |
| | Metal Pipes | N |
| | Trash Racks | N |
| | Flap Gates | N |
| | Sluice/Slide Gates | N |
| | Electric Gate Operators | N |
| | Manual Gate Operators | N |
| | Concrete Surfaces | A |
| | Concrete Tilting / Settlement | A |
| | Concrete Foundations | A |
| | Security Fencing | N |
| | Closure Structures | N |
| | Trash Rakes | N |
| | Other Metallic Items | N |
| | Monolith Joints | N |
| | Safety | A |

Flood Control Project Maintenance
Unit Cover Sheet
2012 Structure Inspection Results

Merced Streams Group

| |
|-----------------------------------|
| Structure |
| Black Rascal Creek Drop Structure |

| | |
|--------------------|-----------------|
| Structure Rating | A |
| Date of Inspection | 7/10/2012 |
| DWR Inspector | Herman Phillips |
| Accompanied By | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Merced Streams Group

| Structure | Structure Length | Inspection Start/End | Inspector |
|-----------------------------------|------------------|--------------------------|-----------------|
| Black Rascal Creek Drop Structure | | 07/10/2012 07/10/2012 | Herman Phillips |

| LIR No. | Levee Mile | | Category | Item | Location | Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. |
|---------|------------|------|------------|-----------------------------------|----------|--------|--|------------------------------|------------------------------|-----------|
| | Start | End | | | | | | Start | End | Photo |
| 1 | 0.00 | 0.00 | Structures | Photo Documentation | | N | | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 1 Y |
| 2 | 0.00 | 0.00 | Structures | Vegetation & Obstructions | | M | Inspector Comments: The vegetation growing around the structure need to be maintained. To date July 10th 2012. Veg (bambo) growing on downstream side of structure right bank. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 2 Y |
| 3 | 0.00 | 0.00 | Structures | Shoaling / Sedimentation | | A | Inspector Comments: No shoaling or sedimentation present. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 3 |
| 4 | 0.00 | 0.00 | Structures | Erosion / Bank Caving | | M | Inspector Comments: There is erosion on unit 1 downstream end of structure along the slope caused by pedestrians, also over across channel to unit 2 there is erosion on bank downstream of structure. Repairs are needed. | 37.314620 ° -120.396270 ° | 37.314620 ° -120.396270 ° | 4 Y |
| 5 | 0.00 | 0.00 | Structures | Revetments | | N | Inspector Comments: This item does not apply to this inspection. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 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. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 6 |
| 7 | 0.00 | 0.00 | Structures | Culverts: Inlets / Outlets | | N | Inspector Comments: This item does not apply to this inspection. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 7 |
| 8 | 0.00 | 0.00 | Structures | Culverts: Breaks / Holes / Cracks | | A | Inspector Comments: There are no breaks, holes, cracks in the culvert that would result in significant water leakage. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 8 |
| 9 | 0.00 | 0.00 | Structures | Metal Pipes | | N | Inspector Comments: This item does not apply to this inspection. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 9 |
| 10 | 0.00 | 0.00 | Structures | Trash Racks | | N | Inspector Comments: This item does not apply to this inspection. This structure has no trash rack. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 10 |
| 11 | 0.00 | 0.00 | Structures | Flap Gates | | N | Inspector Comments: This item does not apply to this inspection. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 11 |
| 12 | 0.00 | 0.00 | Structures | Sluice/Slide Gates | | N | Inspector Comments: This item does not apply to this inspection. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 12 |

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Merced Streams Group

| Structure | | | | | | Structure Length | Inspection Start/End | Inspector |
|-----------------------------------|--|--|--|--|--|------------------|--------------------------|-----------------|
| Black Rascal Creek Drop Structure | | | | | | | 07/10/2012 07/10/2012 | Herman Phillips |

| LNI# No. | Levee Mile | | Category | Item | Location | Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. |
|----------|------------|------|------------|-------------------------------|----------|--------|--|------------------------------|------------------------------|-----------|
| | Start | End | | | | | | Start | End | Photo |
| 13 | 0.00 | 0.00 | Structures | Electric Gate Operators | | N | Inspector Comments: This item does not apply to this inspection. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 13 |
| 14 | 0.00 | 0.00 | Structures | Manual Gate Operators | | N | Inspector Comments: This item does not apply to this inspection. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 14 |
| 15 | 0.00 | 0.00 | Structures | Concrete Surfaces | | A | Inspector Comments: The concrete surfaces at this structure show no defects. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 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. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 16 |
| 17 | 0.00 | 0.00 | Structures | Concrete Foundations | | A | Inspector Comments: No scouring / erosion or undermining near the structure. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 17 |
| 18 | 0.00 | 0.00 | Structures | Security Fencing | | A | Inspector Comments: Safety / security fencing is good condition and provides protection against falling or unauthorized access. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 18 |
| 19 | 0.00 | 0.00 | Structures | Closure Structures | | N | Inspector Comments: This item does not apply to this inspection. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 19 |
| 20 | 0.00 | 0.00 | Structures | Trash Rakes | | N | Inspector Comments: This item does not apply to this inspection. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 20 |
| 21 | 0.00 | 0.00 | Structures | Other Metallic Items | | N | Inspector Comments: This item does not apply to this inspection. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 21 |
| 22 | 0.00 | 0.00 | Structures | Monolith Joints | | N | Inspector Comments: This item does not apply to this inspection. | 37.314750 ° -120.396294 ° | 37.314750 ° -120.396294 ° | 22 |
| 23 | 0.00 | 0.00 | Structures | Safety | | A | | 37.314637 ° -120.396259 ° | 37.314637 ° -120.396259 ° | 23 Y |

| | | | |
|---|---|--|----------------------|
| <p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p> | <p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> | <p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected, see Inspector Comment</p> | <p>C : Corrected</p> |
|---|---|--|----------------------|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Merced Streams Group

| Structure | Structure Length | Inspection Start/End | Inspector |
|-----------------------------------|------------------|--------------------------|-----------------|
| Black Rascal Creek Drop Structure | | 07/10/2012 07/10/2012 | Herman Phillips |

| | |
|---|---------------------|
| Levee Mile Report Line | 1 |
| Start Levee Mile | 0.00 |
| End Levee Mile | 0.00 |
| Location | |
| Category | Structures |
| Item | Photo Documentation |
| Black Rascal Creek Drop Structure viewed from unit 1 right bank. Photo taken 7-10-2012. | |
| phillips_t_20120711_015.jpg | |



| | |
|--|---------------------------|
| Levee Mile Report Line | 2 |
| Start Levee Mile | 0.00 |
| End Levee Mile | 0.00 |
| Location | |
| Category | Structures |
| Item | Vegetation & Obstructions |
| Right bank downstream of Black Rascal Drop Structure Bambo is taking over the waterward bank. Photo taken 7-10-2012. | |
| phillips_t_20120711_018.jpg | |



| | |
|--|-----------------------|
| Levee Mile Report Line | 4 |
| Start Levee Mile | 0.00 |
| End Levee Mile | 0.00 |
| Location | |
| Category | Structures |
| Item | Erosion / Bank Caving |
| This foot erosion remains, no repairs made. Photo taken 7-10-2012. | |
| phillips_t_20120711_016.jpg | |



| | | | |
|---|---|--|----------------------|
| <p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p> | <p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> | <p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected, see Inspector Comment</p> | <p>C : Corrected</p> |
|---|---|--|----------------------|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Merced Streams Group

| Structure | Structure Length | Inspection Start/End | Inspector |
|-----------------------------------|------------------|--------------------------|-----------------|
| Black Rascal Creek Drop Structure | | 07/10/2012 07/10/2012 | Herman Phillips |

| | |
|------------------------|------------|
| Levee Mile Report Line | 23 |
| Start Levee Mile | 0.00 |
| End Levee Mile | 0.00 |
| Location | |
| Category | Structures |
| Item | Safety |

This photo shows both sides right bank and left bank security fences are good, no defects. Photo taken 7-10-2012.

phillips_t_20120711_017.jpg



| | | | |
|---|---|--|----------------------|
| <p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p> | <p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> | <p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected, see Inspector Comment</p> | <p>C : Corrected</p> |
|---|---|--|----------------------|

Flood Control Project Maintenance

Unit Cover Sheet

2012 Structure Inspection Results

Merced Streams Group

| |
|------------------------------|
| Structure |
| Owens Creek Siphon Structure |

| | |
|--------------------|-----------------|
| Structure Rating | M |
| Date of Inspection | 7/10/2012 |
| DWR Inspector | Herman Phillips |
| Accompanied By | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Merced Streams Group

| Structure | Structure Length | Inspection Start/End | Inspector |
|------------------------------|------------------|--------------------------|-----------------|
| Owens Creek Siphon Structure | | 07/10/2012 07/10/2012 | Herman Phillips |

| LMR No. | Levee Mile | | Category | Item | Location | Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. |
|---------|------------|------|------------|-----------------------------------|----------|--------|--|------------------------------|------------------------------|-----------|
| | Start | End | | | | | | Start | End | Photo |
| 1 | 0.00 | 0.00 | Structures | Photo Documentation | | N | Inspector Comments: This structure has two separate parts, an inlet on the side of the railroad tracks, and an outlet on the side of the highway. The coordinates for this issue are for the inlet of Owen Creek Siphon Structure. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 1 Y |
| 2 | 0.00 | 0.00 | Structures | Vegetation & Obstructions | | M | Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions block approximately 25% of the FCW. The coordinates for this issue is for the outlet side of the structure. | 37.262343 ° -120.285349 ° | 37.262343 ° -120.285349 ° | 2 Y |
| 3 | 0.00 | 0.00 | Structures | Shoaling / Sedimentation | | U | Inspector Comments: Unable to see due to excessive vegetation. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 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. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 4 |
| 5 | 0.00 | 0.00 | Structures | Revetments | | N | Inspector Comments: This item does not apply to this inspection. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 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. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 6 |
| 7 | 0.00 | 0.00 | Structures | Culverts: Inlets / Outlets | | U | Inspector Comments: Accumulated debris, sediment or vegetation blocks more than 10% of the culvert opening, impairing the culvert's capacity and hydraulic effectiveness. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 7 Y |
| 8 | 0.00 | 0.00 | Structures | Culverts: Breaks / Holes / Cracks | | A | Inspector Comments: There are no breaks, holes, cracks in the culvert that would result in significant water leakage. Corrugated metal pipes, if present are in good condition or have been relined with appropriate material, which is still in good condition. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 8 |
| 9 | 0.00 | 0.00 | Structures | Metal Pipes | | N | Inspector Comments: No metal pipes at this site. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 9 |
| 10 | 0.00 | 0.00 | Structures | Trash Racks | | N | Inspector Comments: This item does not apply to this inspection. No trash racks at this Structure. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 10 |
| 11 | 0.00 | 0.00 | Structures | Flap Gates | | N | Inspector Comments: This item does not apply to this inspection. There are no flap gates at this structure. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 11 |

| | | | |
|--|--|---|---------------|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected, see Inspector Comment | C : Corrected |
|--|--|---|---------------|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Merced Streams Group

| Structure | Structure Length | Inspection Start/End | Inspector |
|------------------------------|------------------|--------------------------|-----------------|
| Owens Creek Siphon Structure | | 07/10/2012 07/10/2012 | Herman Phillips |

| LNI# No. | Levee Mile | | Category | Item | Location | Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. Photo |
|----------|------------|------|------------|-------------------------------|----------|--------|--|------------------------------|------------------------------|--------------------|
| | Start | End | | | | | | Start | End | |
| 12 | 0.00 | 0.00 | Structures | Sluice/Slide Gates | | N | Inspector Comments: This item does not apply to this inspection. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 12 |
| 13 | 0.00 | 0.00 | Structures | Electric Gate Operators | | N | Inspector Comments: This item does not apply to this inspection. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 13 |
| 14 | 0.00 | 0.00 | Structures | Manual Gate Operators | | N | Inspector Comments: This item does not apply to this inspection. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 14 |
| 15 | 0.00 | 0.00 | Structures | Concrete Surfaces | | A | Inspector Comments: The concrete surface is in good shape. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 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. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 16 |
| 17 | 0.00 | 0.00 | Structures | Concrete Foundations | | A | Inspector Comments: No scouring / erosion or undermining near the structure. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 17 |
| 18 | 0.00 | 0.00 | Structures | Security Fencing | | N | Inspector Comments: This item does not apply to this inspection. There is no need for security fencing at this site. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 18 |
| 19 | 0.00 | 0.00 | Structures | Closure Structures | | N | Inspector Comments: This item does not apply to this inspection. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 19 |
| 20 | 0.00 | 0.00 | Structures | Trash Rakes | | N | Inspector Comments: This item does not apply to this inspection. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 20 |
| 21 | 0.00 | 0.00 | Structures | Other Metallic Items | | N | Inspector Comments: This item does not apply to this inspection. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 21 |
| 22 | 0.00 | 0.00 | Structures | Monolith Joints | | N | Inspector Comments: This item does not apply to this inspection. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 22 |
| 23 | 0.00 | 0.00 | Structures | Safety | | A | Inspector Comments: No hazardous conditions that might affect the operation of the Structure exist. | 37.262880 ° -120.287860 ° | 37.262880 ° -120.287860 ° | 23 |

| | | | |
|--|--|---|---------------|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected, see Inspector Comment | C : Corrected |
|--|--|---|---------------|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Merced Streams Group

| Structure | Structure Length | Inspection Start/End | Inspector |
|------------------------------|------------------|--------------------------|-----------------|
| Owens Creek Siphon Structure | | 07/10/2012 07/10/2012 | Herman Phillips |

| | |
|------------------------|---------------------|
| Levee Mile Report Line | 1 |
| Start Levee Mile | 0.00 |
| End Levee Mile | 0.00 |
| Location | |
| Category | Structures |
| Item | Photo Documentation |

Owens Creek Siphon Structure viewed from unit 4 outlet end of structure. Photo taken 7-10-2012.

phillips_t_20120718_019.jpg



| | |
|------------------------|---------------------------|
| Levee Mile Report Line | 2 |
| Start Levee Mile | 0.00 |
| End Levee Mile | 0.00 |
| Location | |
| Category | Structures |
| Item | Vegetation & Obstructions |

Wild growth of willow trees and tullies choking off inlet side on structure. Remove the wild growth. Photo taken 7-10-2012.

phillips_t_20120718_020.jpg



| | |
|------------------------|----------------------------|
| Levee Mile Report Line | 7 |
| Start Levee Mile | 0.00 |
| End Levee Mile | 0.00 |
| Location | |
| Category | Structures |
| Item | Culverts: Inlets / Outlets |

View shows the blockage of the inlet. Photo taken 7-10-2012.

phillips_t_20120718_021.jpg



| | | | |
|---|---|--|----------------------|
| <p>* Location LS : Land Side WS : Water Side CR : Crown</p> | <p>** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable</p> | <p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected, see Inspector Comment</p> | <p>C : Corrected</p> |
|---|---|--|----------------------|