

# Village Walk Lake Bank Assessment

28041 Eagle Ray Ct Bonita Springs, FL 34135



Date Wed 06/09/2021

Job #

Prepared By Dan DiVincenzo

Weather

6:00 AM

74°

Humid and Partly Cloudy

Wind: 5 MPH | Precipitation: .0" | Humidity: 95%

12:00 PM

89°

Partly Cloudy

Wind: 5 MPH | Precipitation: .0" | Humidity: 47%

4:00 PM

92°

Mostly Cloudy

Wind: 8 MPH | Precipitation: .01" | Humidity: 41%

Time Cards

Worker	Day Total			Hours To Date	Cost Code
<div><div>Dan DiVincenzo</div><div>Construction Observation</div><div>PAYROLL ATTACHMENTS:</div></div>	RT	OT	DT	19	19
	19	0	0		
Total	19			19	

General Notes

1. Figure 1 - Washout with adjacent rills to south. Correct Drop off greater than 9"

Dan DiVincenzo | 07/08/21 | 02:27PM

06/09/21 | 08:30AM

06/09/21 | 08:30AM

06/09/21 | 08:30AM

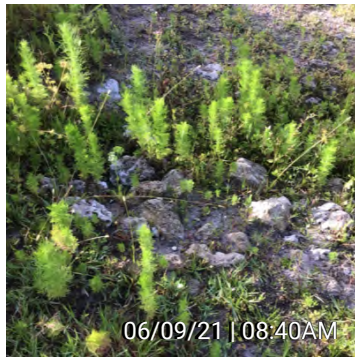
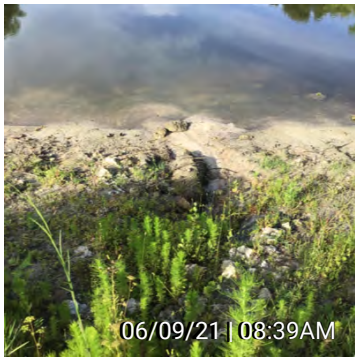
06/09/21 | 08:30AM





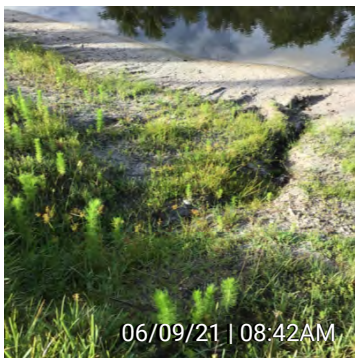
**2. Figure 2 - Minor Rilling and washout previously stabilized with riprap that has been washed out**

Dan DiVincenzo | 07/08/21 | 02:28PM



**3. Figure 3- Washout**

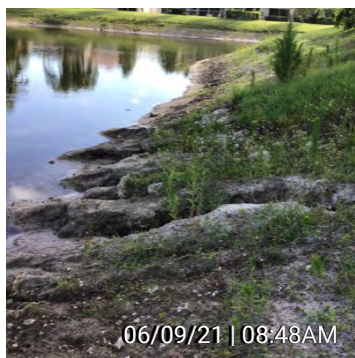
Dan DiVincenzo | 07/08/21 | 02:28PM





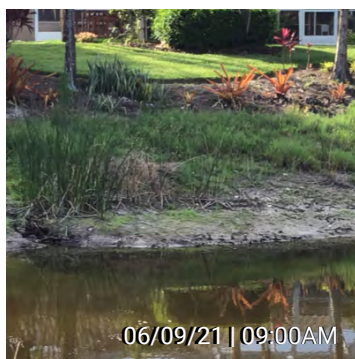
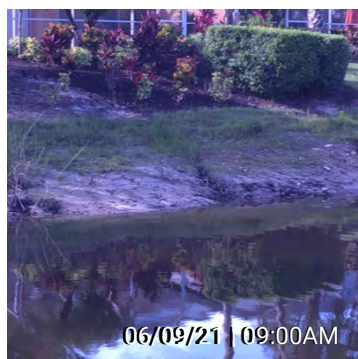
#### 4. Figure 4 - Multiple Washouts due to Rilling and Gullies

Dan DiVincenzo | 07/08/21 | 02:28PM



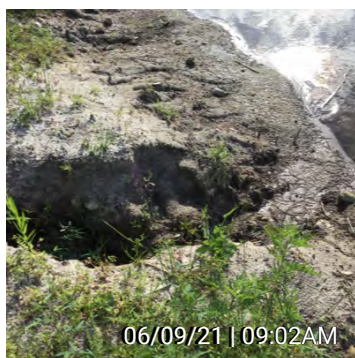
#### 5. Figure 5 - Washout (Recurring)

Dan DiVincenzo | 07/08/21 | 01:49PM



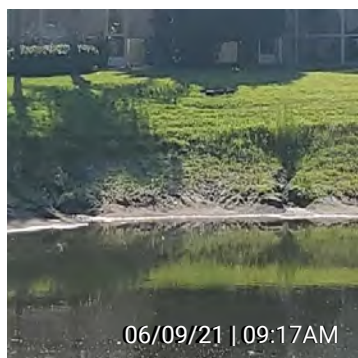
#### 6. Figure 6 - Washout

Dan DiVincenzo | 07/08/21 | 01:50PM



#### 7. Figure 7 - Washouts

Dan DiVincenzo | 07/08/21 | 01:50PM



#### 8. Figure 8 - Washout

Dan DiVincenzo | 07/08/21 | 02:27PM



**9. Figure 9 - Rilling at lake bank, downspout pipe to be extended into lake to mitigate rilling around pipe**

Dan DiVincenzo | 07/08/21 | 01:51PM



**10. Figure 10 - Rilling from downspout drain (Recurring)**

Dan DiVincenzo | 07/08/21 | 01:52PM



**11. Figure 11 - Washouts**

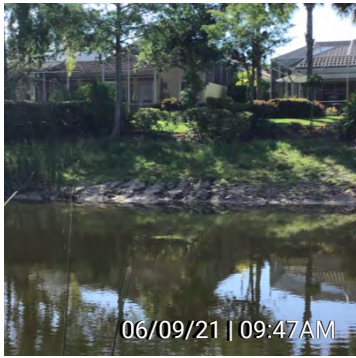
Dan DiVincenzo | 07/08/21 | 01:52PM



**12. Figure 12 - Deep Rills from Runoff**

Dan DiVincenzo | 07/08/21 | 01:52PM





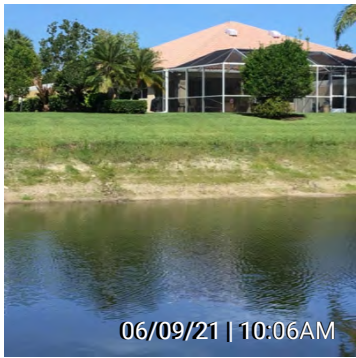
**13. Figure 13 Washout and Rilling (Recurring)**

Dan DiVincenzo | 07/08/21 | 02:22PM



**14. Figure 14 - Washout**

Dan DiVincenzo | 07/08/21 | 02:20PM



**15. Figure 15 - Minor rilling**

Dan DiVincenzo | 07/08/21 | 02:21PM



**16. Figure 16 Washouts**

Dan DiVincenzo | 07/08/21 | 02:40PM



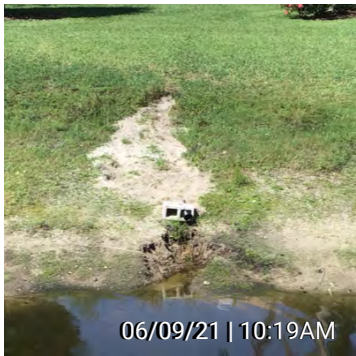
**17. Figure 17 - Drop greater than 9" with washout**

Dan DiVincenzo | 07/08/21 | 02:40PM



**18. Figure 18 - Washout, extend downspout drain to lake**

Dan DiVincenzo | 07/08/21 | 02:41PM



**19. Figure 19 - Washouts**

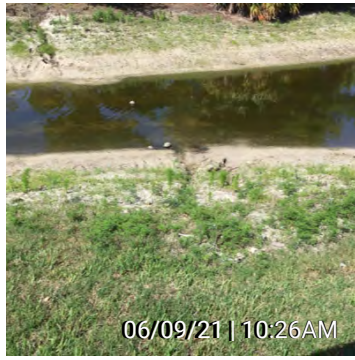
Dan DiVincenzo | 07/08/21 | 02:42PM



**20. Figure 20 - Rills**

Dan DiVincenzo | 07/08/21 | 02:46PM





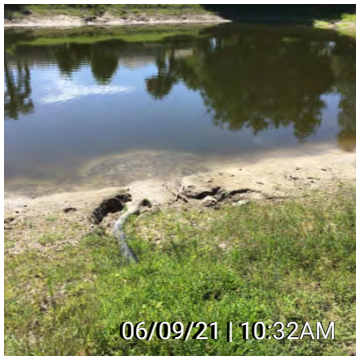
## 21. Figure 21 - Rills

Dan DiVincenzo | 07/08/21 | 02:50PM



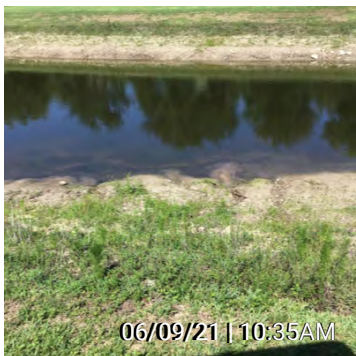
## 22. Figure 22 - Washout at downspout drain

Dan DiVincenzo | 07/08/21 | 03:44PM



## 23. Figure 23 - Washout

Dan DiVincenzo | 07/08/21 | 03:44PM



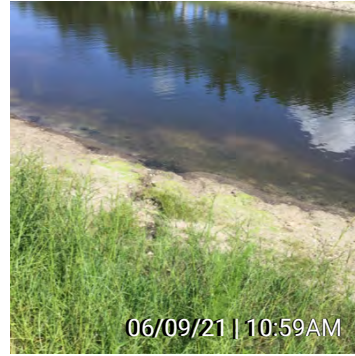
## 24. Figure 24 - Minor rilling

Dan DiVincenzo | 07/08/21 | 03:44PM



## 25. Figure 25 - Washouts and rilling

Dan DiVincenzo | 07/08/21 | 03:05PM



## 26. Figure 26 - Downspout eroding lake bank. Extend to low water level

Dan DiVincenzo | 07/08/21 | 04:13PM



## 27. Figure 27 - Erosion at lake bank

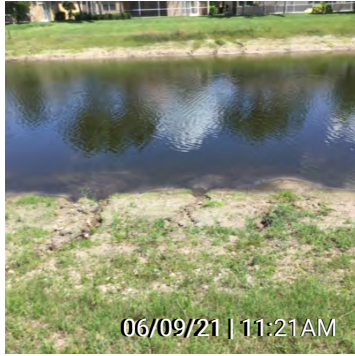
Dan DiVincenzo | 07/08/21 | 04:13PM





28. Figure 28 - Minor Washouts at Lake Bank

Dan DiVincenzo | 07/08/21 | 04:17PM



29. Figure 29 - Washout

Dan DiVincenzo | 07/08/21 | 04:48PM



**30. Figure 30 - Washout**  
Dan DiVincenzo | 07/08/21 | 04:09PM



**31. Figure 31 - Washout**  
Dan DiVincenzo | 07/08/21 | 04:47PM



**32. Figure 32 - Washout (Recurring)**  
Dan DiVincenzo | 07/08/21 | 04:09PM



**33. Figure 33 - Washout**  
Dan DiVincenzo | 07/08/21 | 04:47PM



**34. Figure 34 - Washout**  
Dan DiVincenzo | 07/08/21 | 04:48PM

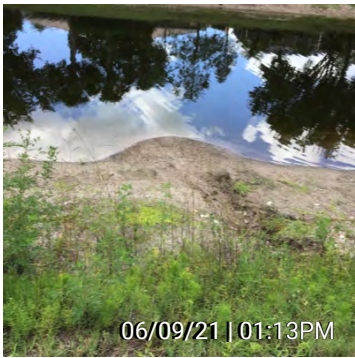
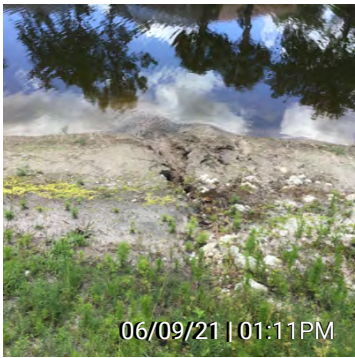
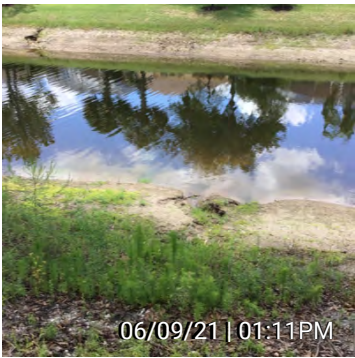
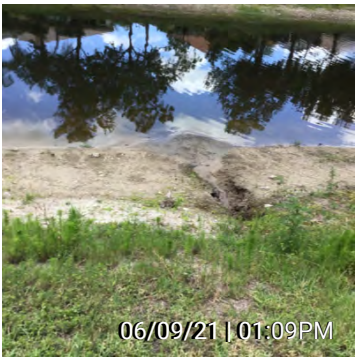




**35. Figure 35 - Washout**  
 Dan DiVincenzo | 07/08/21 | 04:10PM



**36. Figure 36 - Washout (Recurring)**  
 Dan DiVincenzo | 07/08/21 | 04:10PM



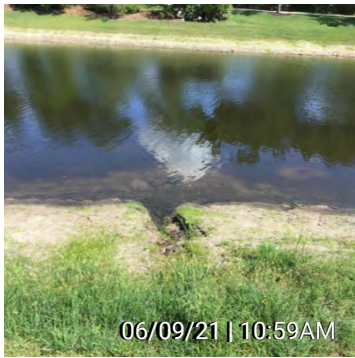




**37. Figure 37 - Washout**  
Dan DiVincenzo | 07/08/21 | 04:38PM



**38. Figure 38 - Downspout drain causing blowout**  
Dan DiVincenzo | 07/08/21 | 04:12PM



**39. Figure 39 - Washout**  
Dan DiVincenzo | 07/08/21 | 04:17PM



**40. Figure 40 - Erosion**  
Dan DiVincenzo | 07/08/21 | 04:17PM

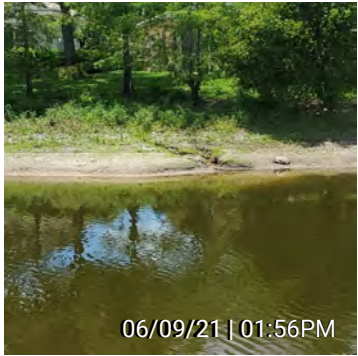




**41. Figure 41 - Washout**  
Dan DiVincenzo | 07/08/21 | 04:32PM



**42. Figure 42 - Washout**  
Dan DiVincenzo | 07/08/21 | 04:31PM



**43. Figure 43 - Washout**  
Dan DiVincenzo | 07/08/21 | 04:30PM



**44. Figure 44 - Deep washout**  
Dan DiVincenzo | 07/08/21 | 04:18PM



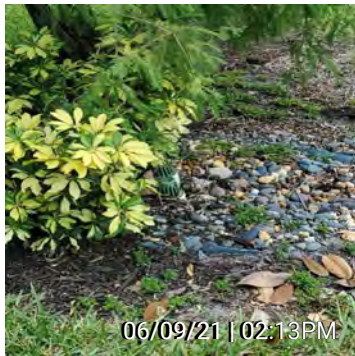
**45. Figure 45 - Erosion**

Dan DiVincenzo | 07/08/21 | 04:19PM



**46. Figure 46 - Pool overflow causing washout**

Dan DiVincenzo | 07/08/21 | 04:19PM



**47. Figure 47 - Washout**

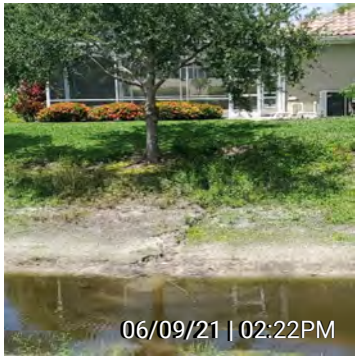
Dan DiVincenzo | 07/08/21 | 04:19PM



**48. Figure 48 - Extend downspout to control elevation. Causing washout**

Dan DiVincenzo | 07/08/21 | 04:19PM

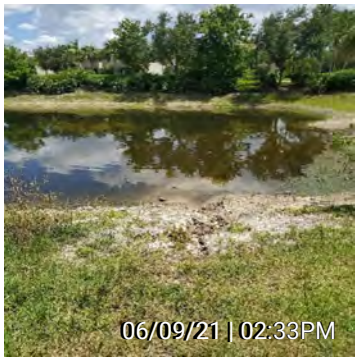




**49. Figure 49 - Washout**  
Dan DiVincenzo | 07/08/21 | 04:19PM



**50. Figure 50 - Washout**  
Dan DiVincenzo | 07/08/21 | 04:19PM



**51. Figure 51 - Washouts**  
Dan DiVincenzo | 07/08/21 | 03:39PM



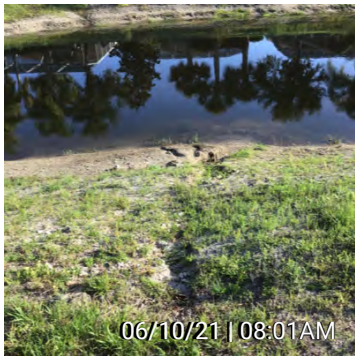
**52. Figure 52 - Washout (Recurring)**  
Dan DiVincenzo | 07/08/21 | 03:38PM



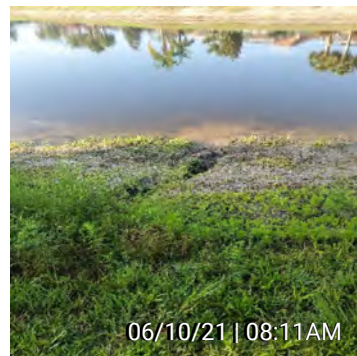
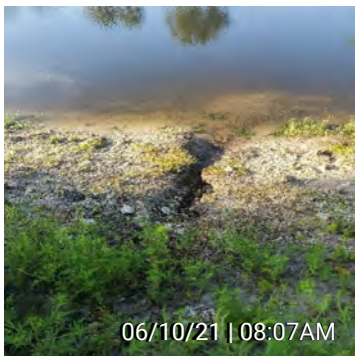
**53. Figure 53- Washout**  
 Dan DiVincenzo | 07/08/21 | 03:38PM



**54. Figure 54 - Washout from bubble up**  
 Dan DiVincenzo | 07/08/21 | 03:38PM

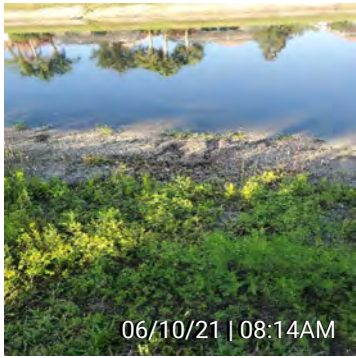


**55. Figure 55 - Washout**  
 Dan DiVincenzo | 07/08/21 | 03:38PM



**56. Figure 56 - Washouts**  
 Dan DiVincenzo | 07/08/21 | 03:38PM





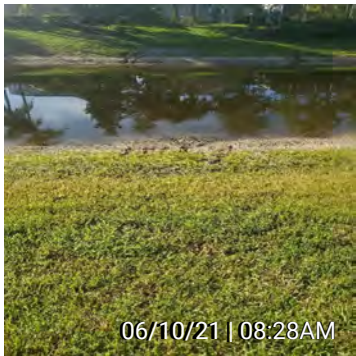
**57. Figure 57 - Washout (Recurring)**

Dan DiVincenzo | 07/08/21 | 03:35PM



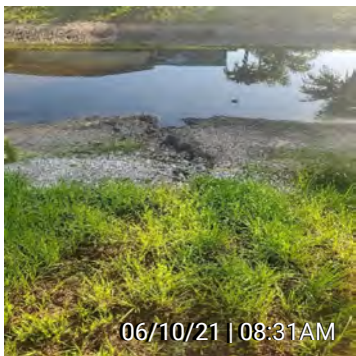
**58. Figure 58 - Washout**

Dan DiVincenzo | 07/08/21 | 03:25PM



**59. Figure 59 - Washout (Recurring)**

Dan DiVincenzo | 07/08/21 | 03:26PM



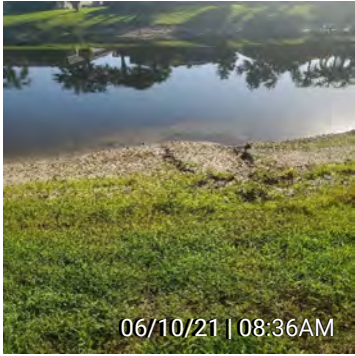
**60. Figure 60 - Washout**

Dan DiVincenzo | 07/08/21 | 03:26PM



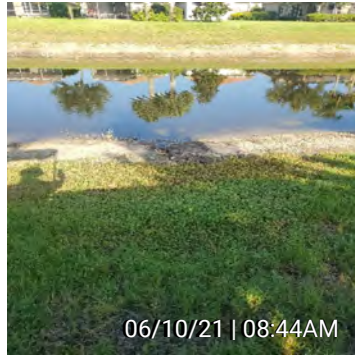
61. Figure 61 - Washout

Dan DiVincenzo | 07/08/21 | 03:26PM



62. Figure 62 - Washouts throughout bank

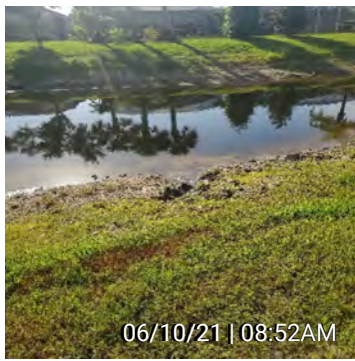
Dan DiVincenzo | 07/08/21 | 03:28PM



63. Figure 63 - Washouts

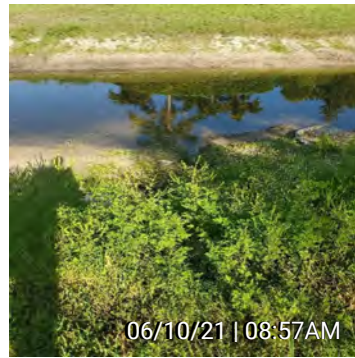
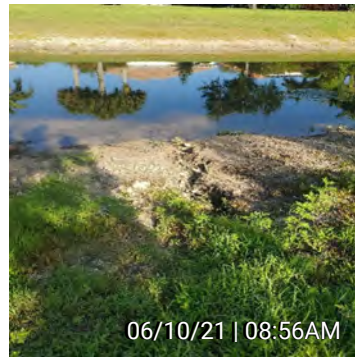
Dan DiVincenzo | 07/08/21 | 03:27PM





#### 64. Figure 64 Washouts

Dan DiVincenzo | 07/08/21 | 03:29PM



#### 65. Figure 65 - Roof drain causing bank washout

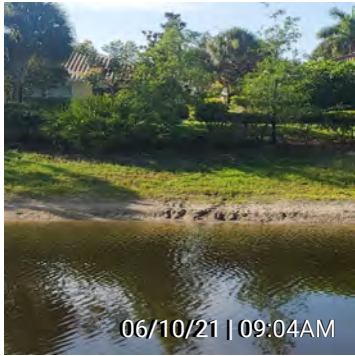
Dan DiVincenzo | 07/08/21 | 03:32PM





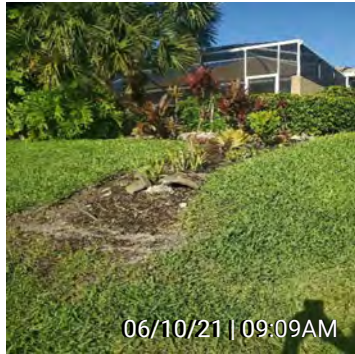
**66. Figure 66 - Erosion at lake bank**

Dan DiVincenzo | 07/08/21 | 03:33PM



**67. Figure 67 - Washout caused by landscape island. Directing water to drop off greater than 9"**

Dan DiVincenzo | 07/08/21 | 03:33PM



**68. Figure 68 - Washout with drop greater than 9"**

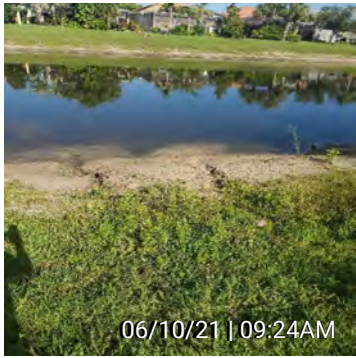
Dan DiVincenzo | 07/08/21 | 03:33PM



**69. Figure 69 - Washout**

Dan DiVincenzo | 07/08/21 | 03:33PM





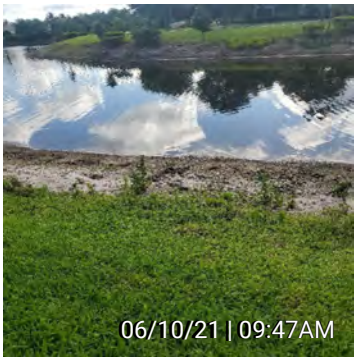
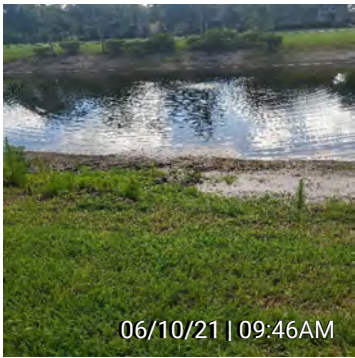
**70. Figure 70 - Washout**  
Dan DiVincenzo | 07/08/21 | 03:32PM



**71. Figure - 71 washout**  
Dan DiVincenzo | 07/08/21 | 03:30PM



**72. Figure 72 - Washouts**  
Dan DiVincenzo | 07/08/21 | 03:30PM





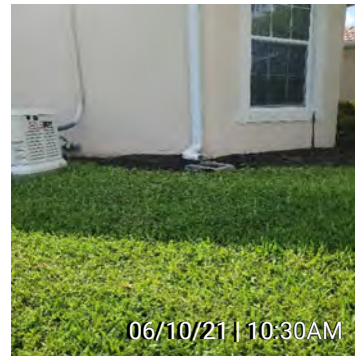
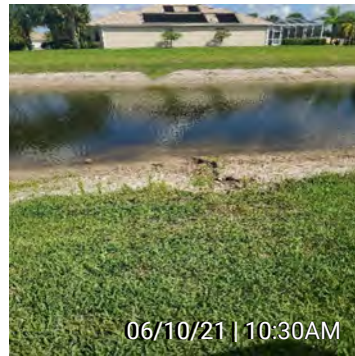
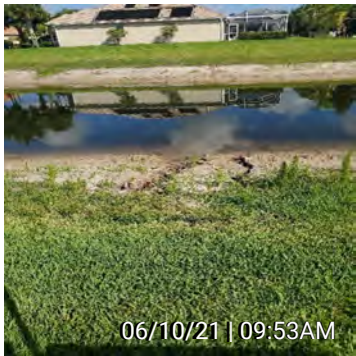
**73. Figure 73 - Washout**

Dan DiVincenzo | 07/08/21 | 03:22PM



**74. Figure 74 - Washout caused by downspout**

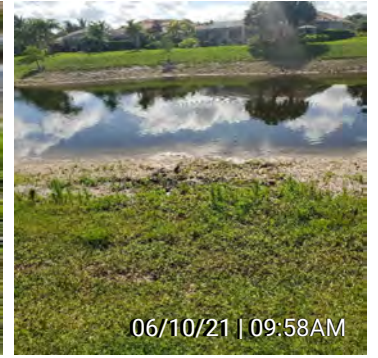
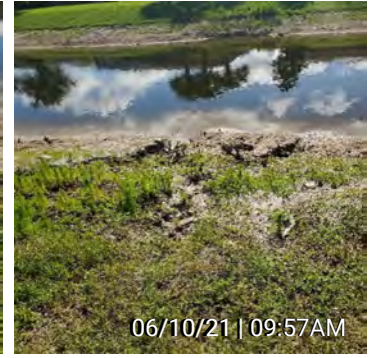
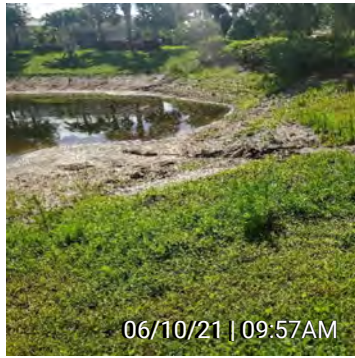
Dan DiVincenzo | 07/08/21 | 03:22PM



**75. Figure 75 - Washouts**

Dan DiVincenzo | 07/08/21 | 03:22PM





**76. Figure 76 - Washout**  
 Dan DiVincenzo | 07/08/21 | 03:22PM



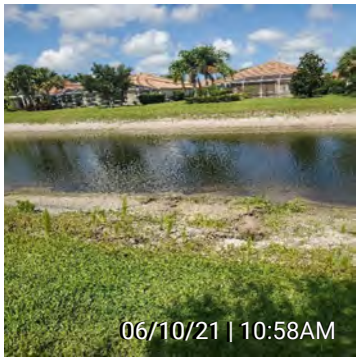
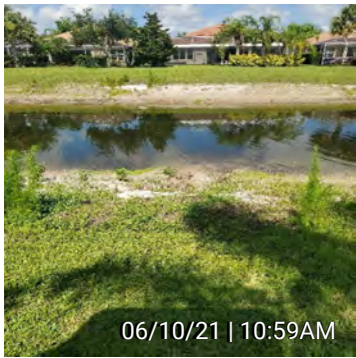
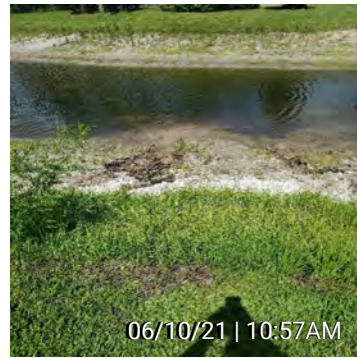
**77. Figure 77 - Washout**  
 Dan DiVincenzo | 07/08/21 | 03:20PM





## 78. Figure 78 - Washout

Dan DiVincenzo | 07/08/21 | 03:20PM



## 79. Figure 79 - Washout

Dan DiVincenzo | 07/08/21 | 03:19PM





**80. Figure 80 - Washouts**

Dan DiVincenzo | 07/08/21 | 03:17PM



**81. Figure 81 - Washout**

Dan DiVincenzo | 07/08/21 | 03:17PM



**82. Figure 82 washout caused by drop off greater than 9"**

Dan DiVincenzo | 07/08/21 | 03:16PM



**83. Figure 83 Erosion**

Dan DiVincenzo | 07/08/21 | 03:16PM



**84. Figure 84 - Erosion**

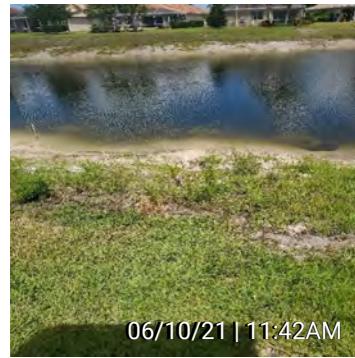
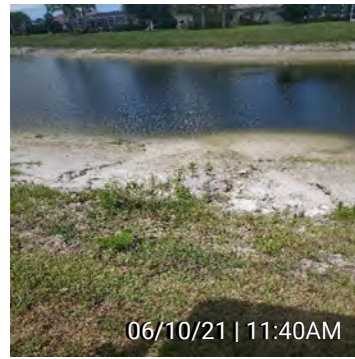
Dan DiVincenzo | 07/08/21 | 03:16PM





## 85. Figure 85 - Washout

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## 86. Figure 87 - Washouts

Dan DiVincenzo | 07/08/21 | 03:13PM





87. Figure 88 - Erosion

Dan DiVincenzo | 07/08/21 | 03:12PM



88. Figure 89 - Washouts

Dan DiVincenzo | 07/08/21 | 03:11PM



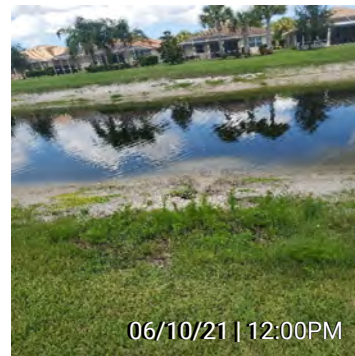
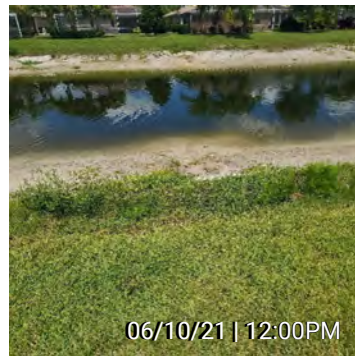
89. Figure 90 - Washouts

Dan DiVincenzo | 07/08/21 | 03:11PM



90. Figure 91 - Washouts

Dan DiVincenzo | 07/08/21 | 03:11PM







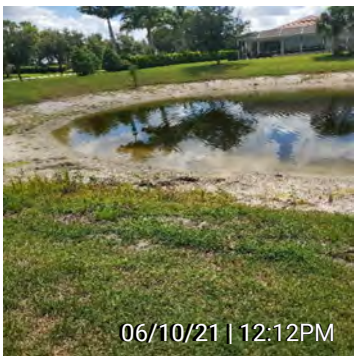
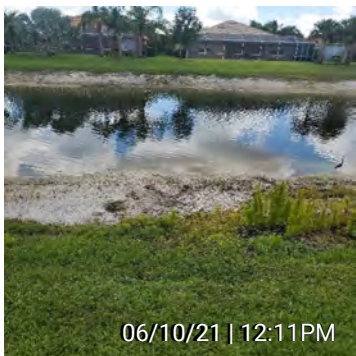
### 91. Figure 92 - Washouts

Dan DiVincenzo | 07/08/21 | 03:11PM



### 92. Figure 93 - Washouts

Dan DiVincenzo | 07/08/21 | 03:11PM



### 93. Figure 94 - Washout extend rip rap to waters edge

Dan DiVincenzo | 07/08/21 | 03:10PM





#### 94. Figure 95- Washout

Dan DiVincenzo | 07/08/21 | 03:10PM



#### 95. Figure 96 - Washout

Dan DiVincenzo | 07/08/21 | 03:06PM



#### 96. Figure 97- Washout

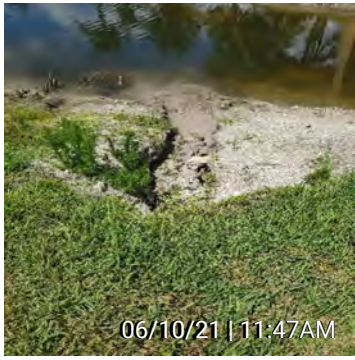
Dan DiVincenzo | 07/08/21 | 03:06PM



## Site Safety Observations

#### 1. Figure 86 - Blowout caused by drain - Potential Life Safety issue

Dan DiVincenzo | 07/08/21 | 03:13PM



## Quality Control Observations

### 1. SFWMD's Compliance Criteria for Lake Banks are:

1. Lake banks stabilized and fully covered with vegetation to prevent erosion from top of slope to normal pool elevation, grass sodding is the primary vegetation use.
2. No washouts creating Gullies and erosion.
3. Steps or drops on the slopes not to exceed 9 inches.
4. Slope to maintain 4:1 slope from top of bank out to a minimum depth of two feet below the control elevation.

Dan DiVincenzo | 07/09/21 | 10:24AM

2. 1. Several washouts were caused by the residents' drain pipes not reaching all the way down to the slope of the lake's normal pool elevation. If the drain pipe get extended this will prevent further washouts in those areas.
2. During the wet season, the grass should be kept high, adjacent to the water and approximately one to two mowers' wide. This will decrease the velocity of the runoff and help prevent erosion near the lake bank.
3. There are humps on the lake bank that are either keeping some runoff stagnant or increasing the velocity around the slope of the hump causing erosion. These areas should be sloped to a minimum 4:1.
4. There are areas specified on the Lake Bank Exhibit that have slight erosion and soft dirt. Permanent seeding will establish perennial vegetative cover that will reduce the erosion and decrease the sediment yield from the disturbed areas.

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### 3. Mitigating Measures (Listed in Order of Effectiveness):

1. Installation of Native Sod, Palms, Plants and Trees
2. Littoral Shelf Plantings
3. Compacted Fill

Dan DiVincenzo | 07/09/21 | 10:32AM

## Survey

Questions	N/A	No	Yes	Description
1. Site Narrative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2021 CDD Lake Bank Inspection Dan DiVincenzo   07/08/21   05:06PM
2. Schedule Delays	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Weather Delays	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Storm Water Management Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Attached Plan Dan DiVincenzo   07/08/21   05:06PM
5. Special Attendees, Departments or Visitors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Upcoming Inspections	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2022 Annual Inspection Dan DiVincenzo   07/08/21   05:06PM



## 7. Requests for Survey

☐☒☐

I, Dan DiVincenzo, have reviewed and completed this report.

Dan DiVincenzo | 07/09/21 | 10:32AM