TYPICAL TESTING PICTURES



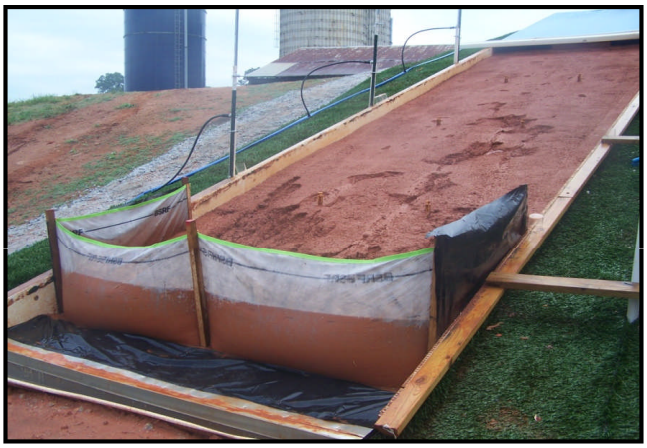
Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date:	18-Apr-12	Start Rain:	7:21 AM	End Rain:	7:41 AM
		Sampling interval:	0:03	End Runoff:	7:43 AM

Rain Time (min): 20.00 Test Time (min): 22.00

Product:	BSRF	Descr:.	Silt Saver - Belted Sediment Retention Fence		
Lot #:		Posts:		Spacing:	

TOP OF SLOPE

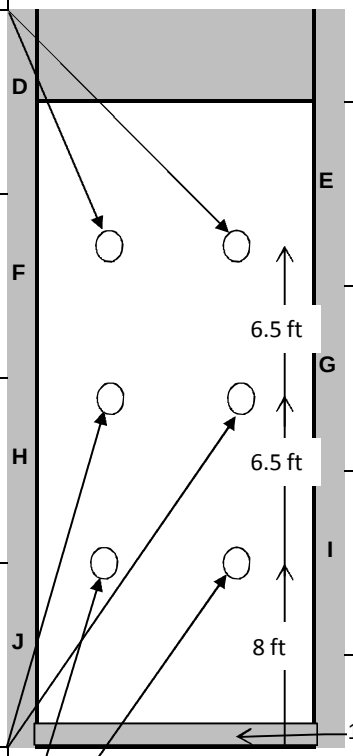
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.2%

d = 20 18 mm

i = 2.36 2.13 in/hr



x							x
X	P =	9	psi	**D**			x
x							x
x					**E**	P = 9 psi	**X**
x							x
X	P =	9	psi	**F**			x
x							x
x					**G**	P = 9 psi	x
x							**X**
x	P =	9	psi	**H**			x
X							x
x					**I**	P = 9 psi	x
x							**X**
x	P =	9	psi	**J**			x
X							
x							

d = 19 18 mm

i = 2.24 2.13 in/hr

w_{c2} = 20.6%

d = 17 17 mm

i = 2.01 2.01 in/hr

w_{c3} = 21.9%

x x **X** x

P = 9 psi

Temp. 59 deg

Hum. 89 %

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.15** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:24	X	X
7:27	X	X
7:30	X	X
7:33	X	X
7:36	X	X
7:39	X	X
7:42	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	37
2	250	28
3	250	22
4	250	20
5	250	20
6	250	18
7	250	18
8	250	18
9	250	18
10	250	18
11	250	16
12	250	14
13	250	12
14	250	10
15	250	9
16	250	7
17	250	7
18	250	7
19	250	7
20	250	6
21	250	6
22	250	0

NOTES:
Wind: 0 mph. Direction: E
Approx 8 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 18-Apr-12 | Start Rain: 7:50 AM | End Rain: 8:10 AM

Sampling interval: 0:03 | End Runoff: 8:14 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: BSRF | Descr:. Silt Saver - Belted Sediment Retention Fence

Lot #: | Posts: | Spacing:

TOP OF SLOPE

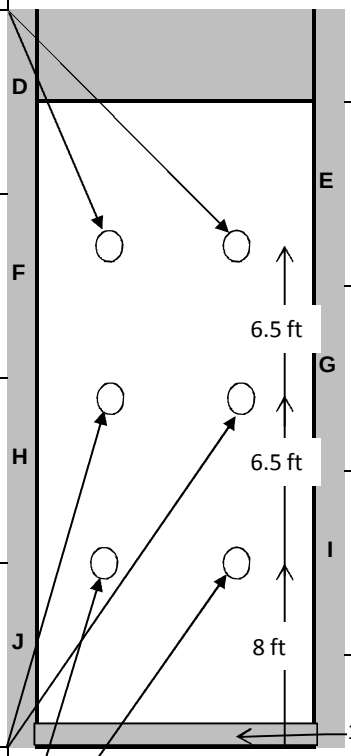
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.2%

d = 34 33 mm

i = 4.02 3.90 in/hr



x						x	
X	P =	9	psi	D		x	
x						x	
x					E	P = 9 psi	X
x						x	
X	P =	9	psi	F		x	
x						x	
x					G	P = 9 psi	x
x							X
x	P =	9	psi	H		x	
X						x	
x					I	P = 9 psi	x
x							X
x	P =	9	psi	J		x	
X							
x							

d = 34 34 mm

i = 4.02 4.02 in/hr

w_{c2} = 20.6%

d = 35 33 mm

i = 4.13 3.90 in/hr

w_{c3} = 21.9%

x x **X** x

P = 9 psi

Temp. 59 deg

Hum. 89 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:53	X	X
7:56	X	X
7:59	X	X
8:02	X	X
8:05	X	X
8:08	X	X
8:11	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	6
2	250	4
3	3785	47
4	3785	36
5	3785	32
6	3785	30
7	3785	30
8	3785	30
9	3785	30
10	3785	26
11	3785	24
12	3785	20
13	3785	20
14	3785	20
15	3785	20
16	3785	20
17	3785	19
18	3785	19
19	3785	19
20	3785	19
21	3785	19
24	3785	0

NOTES:
Wind: 1-2 mph. Direction: E
Approx 50 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 18-Apr-12 | Start Rain: 8:18 AM | End Rain: 8:38 AM

Sampling interval: 0:03 | End Runoff: 8:48 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: BSRF | Descr:. Silt Saver - Belted Sediment Retention Fence

Lot #: | Posts: | Spacing:

TOP OF SLOPE

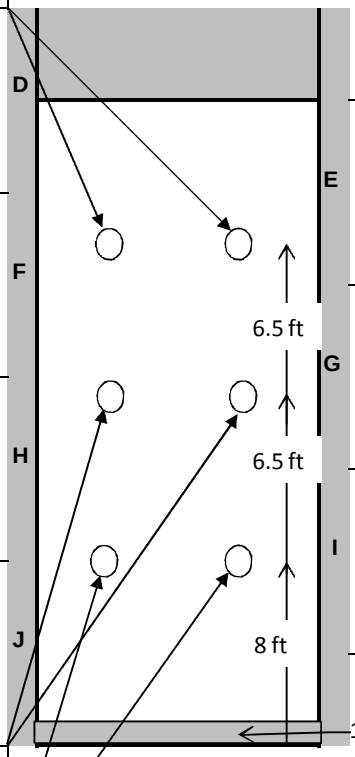
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.2%

d = 48 53 mm

i = 5.67 6.26 in/hr



x / **X** P = 9 psi

D: x / x

E: x / x P = 9 psi / **X**

F: x / x P = 9 psi / **X**

G: x / x P = 9 psi / x

H: x / x P = 9 psi / **X**

I: x / x P = 9 psi / x

J: x / x P = 9 psi / **X**

d = 53 51 mm

i = 6.26 6.02 in/hr

w_{c2} = 20.6%

d = 49 51 mm

i = 5.79 6.02 in/hr

w_{c3} = 21.9%

x x **X** x

P = 9 psi

Temp. 57 deg

Hum. 93 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:21	X	X
8:24	X	X
8:27	X	X
8:30	X	X
8:33	X	X
8:36	X	X
8:39	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	40
2	3785	16
3	3785	12
4	3785	12
5	3785	12
6	3785	13
7	3785	11
8	3785	12
9	3785	12
10	3785	12
11	3785	12
12	3785	12
13	3785	12
14	3785	12
15	3785	12
16	3785	12
17	3785	12
18	3785	12
19	3785	12
20	3785	12
21	3785	11
30	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 100 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date:	12-Apr-12	Start Rain:	7:00 AM	End Rain:	7:20 AM
		Sampling interval:	0:03	End Runoff:	7:23 AM
		Rain Time (min):	20.00	'est Time (min):	23.00
Product:	BSRF	Descr:.	Silt Saver - Belted Sediment Retention Fence		
Lot #:		Posts:		Spacing:	

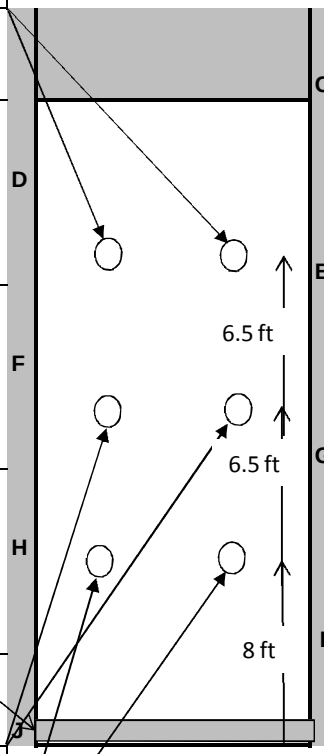
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.2%

d =	19	18	mm
i =	2.24	2.13	in/hr



x					x
			C	P = 9 psi	X
x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
					X
					x

1 ft Install Zone

d =	18	18	mm
i =	2.13	2.13	in/hr

w_{c2} = 20.6%

d =	14	17	mm
i =	1.65	2.01	in/hr

w_{c3} = 21.9%

x x X x

P = 9 psi

Temp. ____ deg

Hum. ____ %

Average Depth: **17** **mm**

Avg Rainfall Intensity: **2.05** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:03	X	X
7:06	X	X
7:09	X	X
7:12	X	X
7:15	X	X
7:18	X	X
7:21	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	60
2	250	45
3	250	40
4	250	40
5	250	30
6	250	24
7	250	24
8	250	24
9	250	24
10	250	24
11	250	24
12	250	24
13	250	24
14	250	15
15	250	13
16	250	9
17	250	8
18	250	5
19	250	5
20	250	5
21	250	5
23	250	0

NOTES:
Wind: 0 mph. Direction: E
Approx 6 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 12-Apr-12 | Start Rain: 7:34 AM | End Rain: 7:54 AM

Sampling interval: 0:03 | End Runoff: 7:59 AM

Rain Time (min): 20.00 | Test Time (min): 25.00

Product: BSRF | Descr:. Silt Saver - Belted Sediment Retention Fence

Lot #: | Posts: | Spacing:

TOP OF SLOPE

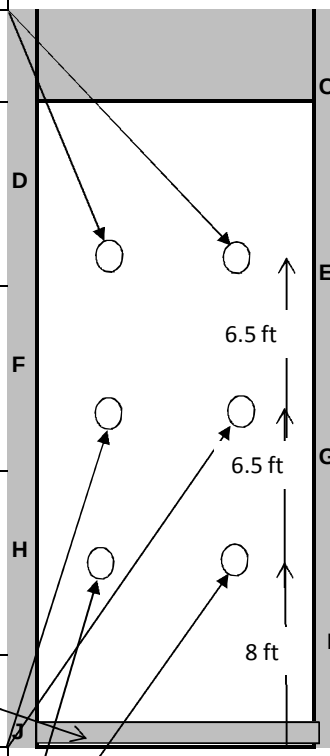
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.2%

d = 33 35 mm

i = 3.90 4.13 in/hr



				C	P = 9 psi
x				D	P = 9 psi
x				E	P = 9 psi
x				F	P = 9 psi
x				G	P = 9 psi
x				H	P = 9 psi
x				I	P = 9 psi
				J	

x				C	X
X				D	x
x				E	X
x				F	x
x				G	x
X				H	x
x				I	X
x				J	x

d = 34 35 mm

i = 4.02 4.13 in/hr

x x **X** x

P = 9 psi

Temp. 36 deg

Hum. 76 %

w_{c2} = 20.6%

d = 33 35 mm

i = 3.90 4.13 in/hr

w_{c3} = 21.9%

Average Depth: 34 mm

Avg Rainfall Intensity: 4.04 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:37	X	X
7:40	X	X
7:43	X	X
7:46	X	X
7:49	X	X
7:52	X	X
7:55	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	10
2	250	6
3	250	3
4	3785	30
5	3785	24
6	3785	17
7	3785	20
8	3785	26
9	3785	25
10	3785	24
11	3785	24
12	3785	20
13	3785	20
14	3785	20
15	3785	18
16	3785	18
17	3785	18
18	3785	18
19	3785	18
20	3785	18
21	3785	18
25	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 55 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date: 12-Apr-12 | Start Rain: 8:12 AM | End Rain: 8:32 AM

Sampling interval: 0:03 | End Runoff: 8:42 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: BSRF | Descr:. Silt Saver - Belted Sediment Retention Fence

Lot #: | Posts: | Spacing:

TOP OF SLOPE

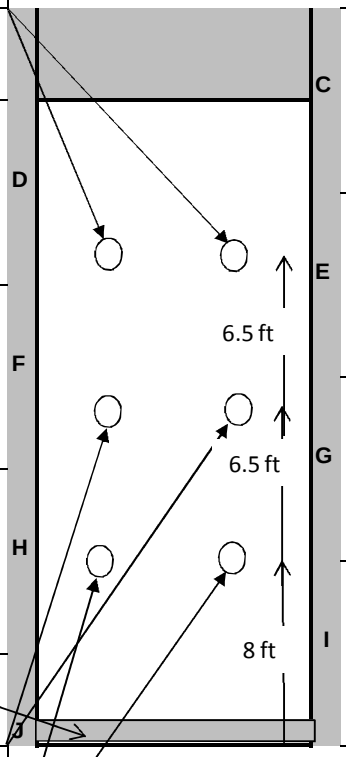
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.2%

d = 51 54 mm

i = 6.02 6.38 in/hr



				C	P = 9 psi	X
x				D		x
X	P = 9 psi					x
x				E	P = 9 psi	X
x				F		x
X	P = 9 psi					x
x				G	P = 9 psi	x
x				H		X
x	P = 9 psi					x
X				I	P = 9 psi	x
x				J		X

d = 50 52 mm

i = 5.91 6.14 in/hr

w_{c2} = 20.6%

d = 49 51 mm

i = 5.79 6.02 in/hr

w_{c3} = 21.9%

x x **X** x

P = 9 psi

Temp. 36 deg

Hum. 76 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.04** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:15	X	X
8:18	X	X
8:21	X	X
8:24	X	X
8:27	X	X
8:30	X	X
8:33	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	3
2	3785	17
3	3785	14
4	3785	14
5	3785	14
6	3785	10
7	3785	10
8	3785	10
9	3785	10
10	3785	10
11	3785	10
12	3785	10
13	3785	10
14	3785	10
15	3785	10
16	3785	10
17	3785	10
18	3785	10
19	3785	10
20	3785	10
21	3785	10
30	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 110 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date: 20-Apr-12 | Start Rain: 6:54 AM | End Rain: 7:14 AM

Sampling interval: 0:03 | End Runoff: 7:15 AM

Rain Time (min): 20.00 | Test Time (min): 21.00

Product: BSRF | Descr:. Silt Saver - Belted Sediment Retention Fence

Lot #: | Posts: | Spacing:

TOP OF SLOPE

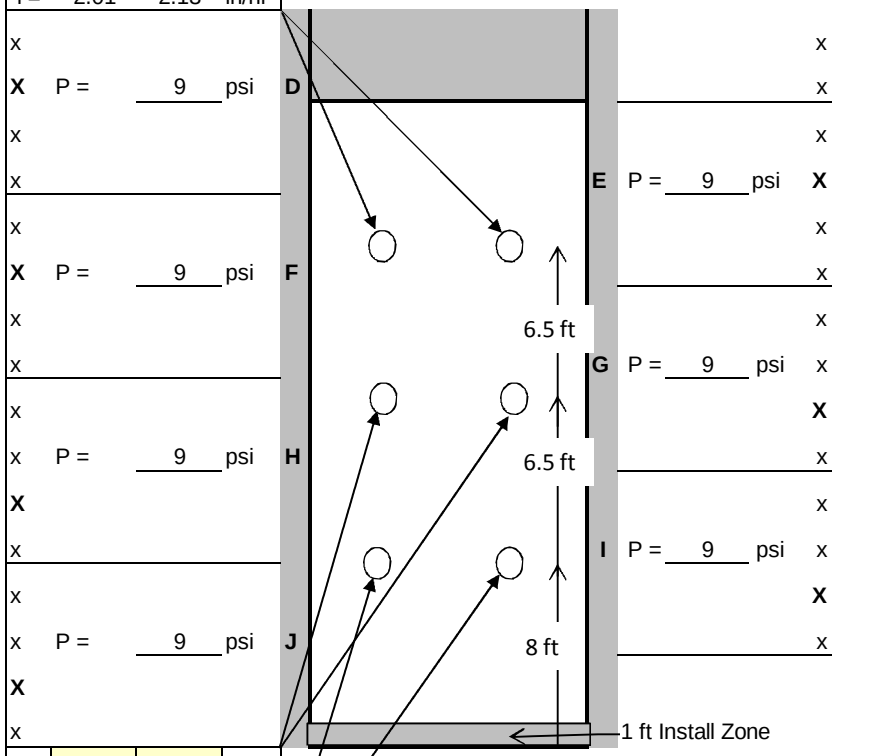
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.2%

d = 17 18 mm

i = 2.01 2.13 in/hr



d = 17 18 mm

i = 2.01 2.13 in/hr

w_{c2} = 20.6%

d = 18 19 mm

i = 2.13 2.24 in/hr

w_{c3} = 21.9%

x x X x

P = 9 psi

Temp. 57 deg

Hum. 94 %

Average Depth: 18 mm

Avg Rainfall Intensity: 2.11 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
6:57	X	X
7:00	X	X
7:03	X	X
7:06	X	X
7:09	X	X
7:12	X	X
7:15	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	60
2	250	50
3	250	48
4	250	47
5	250	44
6	250	38
7	250	35
8	250	35
9	250	34
10	250	32
11	250	30
12	250	30
13	250	30
14	250	28
15	250	26
16	250	24
17	250	18
18	250	16
19	250	12
20	250	8
21	250	8
21	250	0

NOTES:
Wind: 0 mph. Direction: N
Approx 4 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date: 20-Apr-12 | Start Rain: 7:24 AM | End Rain: 7:44 AM

Sampling interval: 0:03 | End Runoff: 7:46 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: BSRF | Descr:. Silt Saver - Belted Sediment Retention Fence

Lot #: | Posts: | Spacing:

TOP OF SLOPE

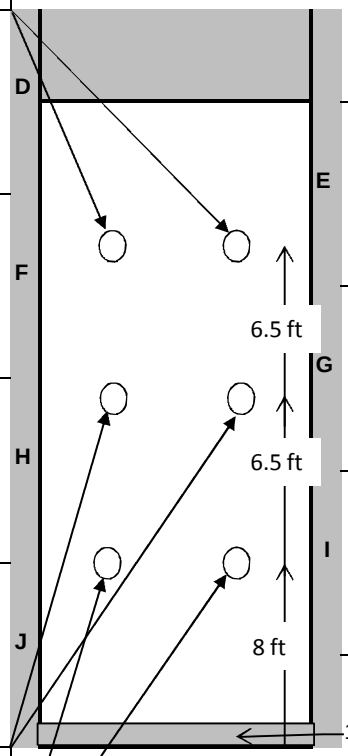
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.2%

d = 35 35 mm

i = 4.13 4.13 in/hr



x x

X P = 9 psi D x

x x

x E P = 9 psi X

x x

X P = 9 psi F x

x x

x G P = 9 psi x

x X

x P = 9 psi H x

X x

x I P = 9 psi x

x X

x P = 9 psi J x

X

x

d = 37 36 mm

i = 4.37 4.25 in/hr

w_{c2} = 20.6%

d = 36 35 mm

i = 4.25 4.13 in/hr

w_{c3} = 21.9%

x x **X** x

P = 9 psi

Temp. 57 deg

Hum. 93 %

Average Depth: **36** **mm**

Avg Rainfall Intensity: **4.21** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:27	X	X
7:30	X	X
7:33	X	X
7:36	X	X
7:39	X	X
7:42	X	X
7:45	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	10
2	250	10
3	3785	33
4	3785	25
5	3785	23
6	3785	22
7	3785	20
8	3785	20
9	3785	18
10	3785	18
11	3785	18
12	3785	16
13	3785	15
14	3785	15
15	3785	15
16	3785	14
17	3785	14
18	3785	14
19	3785	14
20	3785	14
21	3785	14
22	3785	0

NOTES:
Wind: 0 mph. Direction: N
Approx 65 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 20-Apr-12 | Start Rain: 7:54 AM | End Rain: 8:14 AM

Sampling interval: 0:03 | End Runoff: 8:24 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: BSRF | Descr:. Silt Saver - Belted Sediment Retention Fence

Lot #: | Posts: | Spacing:

TOP OF SLOPE

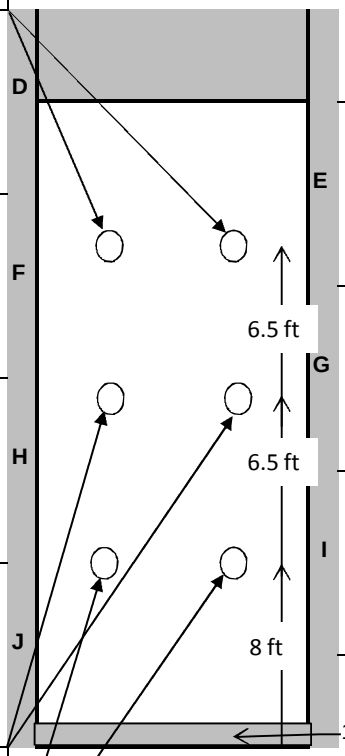
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.2%

d = 50 50 mm

i = 5.91 5.91 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 56 50 mm

i = 6.61 5.91 in/hr

w_{c2} = 20.6%

d = 51 50 mm

i = 6.02 5.91 in/hr

w_{c3} = 21.9%

x x **X** x

P = 9 psi

Temp. 57 deg

Hum. 93 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.04** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:57	X	X
8:00	X	X
8:03	X	X
8:06	X	X
8:09	X	X
8:12	X	X
8:15	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	8
2	3785	18
3	3785	13
4	3785	11
5	3785	11
6	3785	11
7	3785	10
8	3785	10
9	3785	10
10	3785	9
11	3785	9
12	3785	9
13	3785	9
14	3785	9
15	3785	8
16	3785	8
17	3785	8
18	3785	8
19	3785	8
20	3785	8
21	3785	15
30	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 125 gallons collected.

BSRF **Silt Saver - Belted Sediment Retention Fence**

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	231
2	20	78.4
3	20	121

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	580	2-1	3.00	457	2-1	3.00	209
2-2	6.00	508	2-2	6.00	185	2-2	6.00	333
2-3	9.00	574	2-3	9.00	126	2-3	9.00	265
2-4	12.00	566	2-4	12.00	119	2-4	12.00	616
2-5	15.00	910	2-5	15.00	1067	2-5	15.00	401
2-6	18.00	1268	2-6	18.00	787	2-6	18.00	322
2-7	21.00	667	2-7	21.00	1588	2-7	21.00	1209
avg		**725**	avg		**618**	avg		**479**
4-1	3.00	859	4-1	2.00	1510	4-1	2.00	1844
4-2	6.00	669	4-2	4.00	1492	4-2	4.00	1585
4-3	9.00	806	4-3	6.00	1173	4-3	6.00	1366
4-4	12.00	881	4-4	8.00	1141	4-4	8.00	1233
4-5	15.00	690	4-5	10.00	1082	4-5	10.00	1185
4-6	18.00	648	4-6	12.00	1068	4-6	12.00	1212
4-7	21.00	534	4-7	21.00	995	4-7	21.00	1123
avg		**727**	avg		**1209**	avg		**1364**
6-1	3.00	767	6-1	3.00	960	6-1	3.00	1106
6-2	6.00	797	6-2	6.00	1017	6-2	6.00	1145
6-3	9.00	838	6-3	9.00	899	6-3	9.00	1101
6-4	12.00	674	6-4	12.00	979	6-4	12.00	1060
6-5	15.00	844	6-5	15.00	925	6-5	15.00	1147
6-6	18.00	749	6-6	18.00	864	6-6	18.00	1011
6-7	21.00	561	6-7	21.00	832	6-7	21.00	749
avg		**747**	avg		**925**	avg		**1046**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.15	in/hr	avg														
18-Apr-12		2-1	3.00	277.87	152.41	150.14	149.99	150.00	127.73	0.13	1174.35	3.00	333.12	0.49	1174.35	0.00
		2-2	6.00	325.21	153.39	150.63	150.55	80.00	174.58	0.17	458.24	6.00	272.55	0.60	458.24	0.00
		2-3	9.00	341.78	152.87	149.80	149.79	10.00	191.98	0.19	52.09	9.00	272.55	0.66	52.09	0.00
		2-4	12.00	336.78	157.50	152.04	151.78	260.00	184.74	0.18	1407.38	12.00	211.98	0.72	1407.38	0.01
		2-5	15.00	344.39	153.56	149.63	149.44	190.00	194.76	0.19	975.56	15.00	136.27	1.08	975.56	0.01
		2-6	18.00	327.39	158.42	150.17	149.90	270.00	177.22	0.18	1523.53	18.00	105.99	1.63	1523.53	0.02
		2-7	21.00	324.54	154.44	150.23	149.87	360.00	174.31	0.17	2065.29	21.00	90.85	1.84	2065.29	0.03
										AVG =	**1093.78**	22.00	0	0.33	2065.29	0.01
4.00	in/hr	avg									1093.78			**Total Solids Lost:**		**0.08**
18-Apr-12		4-1	3.00	344.11	155.59	150.29	149.93	360.00	193.82	0.19	1857.39	3.00	47.01	3.23	1857.39	0.05
		4-2	6.00	309.19	156.19	151.66	151.33	330.00	157.53	0.16	2094.84	6.00	30.00	5.15	2094.84	0.09
		4-3	9.00	324.89	154.87	147.95	147.65	300.00	176.94	0.18	1695.49	9.00	30.00	6.00	1695.49	0.08
		4-4	12.00	335.14	154.64	149.43	149.17	260.00	185.71	0.19	1400.03	12.00	20.00	7.27	1400.03	0.08
		4-5	15.00	357.17	156.45	149.85	149.50	350.00	207.32	0.21	1688.21	15.00	20.00	9.00	1688.21	0.13
		4-6	18.00	344.66	151.69	149.30	149.01	290.00	195.36	0.20	1484.44	18.00	19.00	9.23	1484.44	0.11
		4-7	21.00	285.68	153.57	150.83	150.60	230.00	134.85	0.13	1705.60	21.00	19.00	9.47	1705.60	0.13
										AVG =	**1703.71**	24.00	0.00	1.58	1705.60	0.02
6.00	in/hr	avg									1703.71			**Total Solids Lost:**		**0.71**
18-Apr-12		6-1	3.00	342.28	152.98	147.77	147.45	320.00	194.51	0.19	1645.16	3.00	12.00	9.43	1645.16	0.13
		6-2	6.00	342.19	155.49	149.99	149.58	410.00	192.20	0.19	2133.19	6.00	13.00	14.80	2133.19	0.26
		6-3	9.00	339.21	154.85	148.36	148.06	300.00	190.85	0.19	1571.92	9.00	12.00	15.22	1571.92	0.20
		6-4	12.00	357.83	154.72	150.57	150.36	210.00	207.26	0.21	1013.22	12.00	12.00	15.00	1013.22	0.13
		6-5	15.00	340.38	154.79	151.29	150.83	460.00	189.09	0.19	2432.70	15.00	12.00	15.00	2432.70	0.30
		6-6	18.00	343.06	155.67	148.11	147.75	360.00	194.95	0.19	1846.63	18.00	12.00	15.00	1846.63	0.23
		6-7	21.00	360.21	152.29	146.86	146.65	210.00	213.35	0.21	984.30	21.00	11.00	15.22	984.30	0.12
										AVG =	**1661.02**	30.00	0.00	2.50	984.30	0.02
											1661.02			**Total Solids Lost:**		**1.40**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.05	in/hr	avg														
12-Apr-12		2-1	3.00	329.37	150.80	150.39	149.99	400.00	178.98	0.18	2234.89	3.00	605.67	0.30	2234.89	0.01
		2-2	6.00	344.85	156.97	150.84	150.84	0.00	194.01	0.19	0.00	6.00	363.40	0.36	0.00	0.00
		2-3	9.00	337.04	149.97	149.79	149.79	0.00	187.25	0.19	0.00	9.00	363.40	0.50	0.00	0.00
		2-4	12.00	334.48	151.72	151.72	151.72	0.00	182.76	0.18	0.00	12.00	363.40	0.50	0.00	0.00
		2-5	15.00	339.19	151.74	149.71	149.44	270.00	189.48	0.19	1424.95	15.00	196.84	0.65	1424.95	0.01
		2-6	18.00	304.70	154.52	150.09	149.98	110.00	154.61	0.15	711.47	18.00	75.71	1.44	711.47	0.01
		2-7	21.00	338.33	162.04	150.73	149.27	1460.00	187.60	0.19	7782.52	21.00	75.71	2.38	7782.52	0.15
										AVG =	**1736.26**	23.00	0.00	0.40	7782.52	0.03
4.04	in/hr	avg									1736.26			**Total Solids Lost:**		**0.20**
12-Apr-12		4-1	3.00	331.57	157.68	149.85	149.57	280.00	181.72	0.18	1540.83	3.00	45.42	2.17	1540.83	0.03
		4-2	6.00	289.94	155.22	151.57	151.35	220.00	138.37	0.14	1589.94	6.00	17.00	6.74	1589.94	0.09
		4-3	9.00	309.45	152.75	148.52	148.25	270.00	160.93	0.16	1677.75	9.00	25.00	8.20	1677.75	0.11
		4-4	12.00	326.04	158.25	150.04	149.77	270.00	176.00	0.18	1534.09	12.00	20.00	7.68	1534.09	0.10
		4-5	15.00	314.81	153.02	149.74	149.50	240.00	165.07	0.17	1453.93	15.00	18.00	9.16	1453.93	0.11
		4-6	18.00	335.80	154.32	149.29	149.01	280.00	186.51	0.19	1501.26	18.00	18.00	10.00	1501.26	0.13
		4-7	21.00	314.71	154.15	150.94	150.62	320.00	163.77	0.16	1953.96	21.00	18.00	10.00	1953.96	0.16
										AVG =	**1607.39**	25.00	0.00	1.67	1953.96	0.03
6.04	in/hr	avg									1607.39			**Total Solids Lost:**		**0.76**
12-Apr-12		6-1	3.00	325.55	152.83	148.37	148.06	310.00	177.18	0.18	1749.63	3.00	14.00	8.43	1749.63	0.12
		6-2	6.00	287.91	153.43	149.81	149.58	230.00	138.10	0.14	1665.46	6.00	10.00	13.57	1665.46	0.19
		6-3	9.00	305.49	153.33	147.65	147.45	200.00	157.84	0.16	1267.11	9.00	10.00	18.00	1267.11	0.19
		6-4	12.00	291.96	161.29	150.55	150.36	190.00	141.41	0.14	1343.61	12.00	10.00	18.00	1343.61	0.20
		6-5	15.00	297.14	152.87	148.93	148.80	130.00	148.21	0.15	877.13	15.00	10.00	18.00	877.13	0.13
		6-6	18.00	325.39	153.03	149.48	149.35	130.00	175.91	0.18	739.01	18.00	10.00	18.00	739.01	0.11
		6-7	21.00	338.63	149.92	146.54	146.31	230.00	192.09	0.19	1197.36	21.00	10.00	18.00	1197.36	0.18
										AVG =	**1262.76**	30.00	0.00	3.00	1197.36	0.03
											1262.76			**Total Solids Lost:**		**1.16**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.11	in/hr	avg														
20-Apr-12		2-1	3.00	333.05	149.52	149.52	149.52	0.00	183.53	0.18	0.00	3.00	726.80	0.29	0.00	0.00
		2-2	6.00	326.30	150.80	150.80	150.80	0.00	175.50	0.18	0.00	6.00	575.38	0.27	0.00	0.00
		2-3	9.00	317.24	149.20	149.20	149.20	0.00	168.04	0.17	0.00	9.00	514.82	0.34	0.00	0.00
		2-4	12.00	313.05	150.05	150.05	150.05	0.00	163.00	0.16	0.00	12.00	454.25	0.38	0.00	0.00
		2-5	15.00	320.67	149.28	149.28	149.28	0.00	171.39	0.17	0.00	15.00	393.68	0.42	0.00	0.00
		2-6	18.00	316.43	150.85	150.85	150.85	0.00	165.58	0.17	0.00	18.00	242.27	0.58	0.00	0.00
		2-7	21.00	328.38	158.92	150.73	150.63	100.00	177.65	0.18	562.90	21.00	121.13	1.17	562.90	0.01
										AVG =	**80.41**	21.00	0.00	0.25	562.90	0.00
4.21	in/hr	avg									80.41			**Total Solids Lost:**		**0.01**
20-Apr-12		4-1	3.00	312.62	164.60	146.81	146.70	110.00	165.81	0.17	663.41	3.00	33.00	1.84	663.41	0.00
		4-2	6.00	327.77	159.00	150.66	150.38	280.00	177.11	0.18	1580.94	6.00	22.00	7.23	1580.94	0.10
		4-3	9.00	322.94	160.74	148.05	147.80	250.00	174.89	0.17	1429.47	9.00	18.00	9.01	1429.47	0.11
		4-4	12.00	331.48	163.57	151.06	150.36	700.00	180.42	0.18	3879.84	12.00	16.00	10.19	3879.84	0.33
		4-5	15.00	340.27	171.70	150.93	150.76	170.00	189.34	0.19	897.86	15.00	15.00	11.87	897.86	0.09
		4-6	18.00	333.33	161.84	149.89	149.70	190.00	183.44	0.18	1035.76	18.00	14.00	12.71	1035.76	0.11
		4-7	21.00	344.86	165.14	151.28	151.07	210.00	193.58	0.19	1084.82	21.00	14.00	12.86	1084.82	0.12
										AVG =	**1510.30**	22.00	0.00	2.14	1084.82	0.02
6.04	in/hr	avg									1510.30			**Total Solids Lost:**		**0.87**
20-Apr-12		6-1	3.00	348.78	161.43	147.94	147.70	240.00	200.84	0.20	1194.98	3.00	13.00	5.72	1194.98	0.06
		6-2	6.00	337.41	168.43	150.93	150.64	290.00	186.48	0.19	1555.13	6.00	11.00	15.91	1555.13	0.21
		6-3	9.00	340.04	156.94	151.90	151.64	260.00	188.14	0.19	1381.95	9.00	10.00	17.71	1381.95	0.20
		6-4	12.00	319.95	158.92	150.82	150.61	210.00	169.13	0.17	1241.65	12.00	9.00	19.65	1241.65	0.20
		6-5	15.00	362.30	158.20	151.39	151.01	380.00	210.91	0.21	1801.72	15.00	8.00	20.39	1801.72	0.31
		6-6	18.00	357.59	172.37	151.02	150.64	380.00	206.57	0.21	1839.57	18.00	8.00	22.50	1839.57	0.35
		6-7	21.00	341.84	157.48	149.57	149.17	400.00	192.27	0.19	2080.41	21.00	15.00	20.22	2080.41	0.35
										AVG =	**1585.06**	30.00	0.00	3.75	2080.41	0.07
											1585.06			**Total Solids Lost:**		**1.74**

18-Apr-12
Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.15 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	560	0.21	0.21	0.21	
2-2	2.00	424	0.12	0.12	0.34	
2-3	3.00	333	0.16	0.16	0.49	
2-4	4.00	303	0.19	0.19	0.68	
2-5	5.00	303	0.20	0.20	0.88	
2-6	6.00	273	0.21	0.21	1.09	
2-7	7.00	273	0.22	0.22	1.31	
2-8	8.00	273	0.22	0.22	1.53	
2-9	9.00	273	0.22	0.22	1.75	
2-10	10.00	273	0.22	0.22	1.97	
2-11	11.00	242	0.23	0.23	2.20	
2-12	12.00	212	0.26	0.26	2.47	
2-13	13.00	182	0.30	0.30	2.77	
2-14	14.00	151	0.36	0.36	3.13	
2-15	15.00	136	0.42	0.42	3.55	
2-16	16.00	106	0.50	0.50	4.05	
2-17	17.00	106	0.57	0.57	4.61	
2-18	18.00	106	0.57	0.57	5.18	
2-19	19.00	106	0.57	0.57	5.74	
2-20	20.00	91	0.61	0.61	6.35	
2-21	21.00	91	0.66	0.66	7.01	
2-end	22.00	0	0.33	0.33	7.34	
					7.34	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	91	1.32	1.32	1.32	
4-2	2	61	0.79	0.79	2.11	
4-3	3	47	1.12	1.12	3.23	
4-4	4	36	1.45	1.45	4.67	
4-5	5	32	1.76	1.76	6.44	
4-6	6	30	1.94	1.94	8.37	
4-7	7	30	2.00	2.00	10.37	
4-8	8	30	2.00	2.00	12.37	
4-9	9	30	2.00	2.00	14.37	
4-10	10	26	2.14	2.14	16.52	
4-11	11	24	2.40	2.40	18.92	
4-12	12	20	2.73	2.73	21.64	
4-13	13	20	3.00	3.00	24.64	
4-14	14	20	3.00	3.00	27.64	
4-15	15	20	3.00	3.00	30.64	
4-16	16	20	3.00	3.00	33.64	
4-17	17	19	3.08	3.08	36.72	
4-18	18	19	3.16	3.16	39.88	
4-19	19	19	3.16	3.16	43.03	
4-20	20	19	3.16	3.16	46.19	
4-21	21	19	3.16	3.16	49.35	
4-end	24.00	0	1.58	1.58	50.93	
					50.93	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	40	3.00	3.00	3.00	
6-2	2	16	2.14	2.14	5.14	
6-3	3	12	4.29	4.29	9.43	
6-4	4	12	5.00	5.00	14.43	
6-5	5	12	5.00	5.00	19.43	
6-6	6	13	4.80	4.80	24.23	
6-7	7	11	5.00	5.00	29.23	
6-8	8	12	5.22	5.22	34.44	
6-9	9	12	5.00	5.00	39.44	
6-10	10	12	5.00	5.00	44.44	
6-11	11	12	5.00	5.00	49.44	
6-12	12	12	5.00	5.00	54.44	
6-13	13	12	5.00	5.00	59.44	
6-14	14	12	5.00	5.00	64.44	
6-15	15	12	5.00	5.00	69.44	
6-16	16	12	5.00	5.00	74.44	
6-17	17	12	5.00	5.00	79.44	
6-18	18	12	5.00	5.00	84.44	
6-19	19	12	5.00	5.00	89.44	
6-20	20	12	5.00	5.00	94.44	
6-21	21	11	5.22	5.22	99.65	
6-end	30.00	0	2.50	2.50	102.15	
					102.15	**Total Collected Runoff (approx)**

12-Apr-12
Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.05 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	908	0.13	0.13	0.13	
2-2	2.00	681	0.08	0.08	0.21	
2-3	3.00	606	0.09	0.09	0.30	
2-4	4.00	606	0.10	0.10	0.40	
2-5	5.00	454	0.11	0.11	0.51	
2-6	6.00	363	0.15	0.15	0.66	
2-7	7.00	363	0.17	0.17	0.82	
2-8	8.00	363	0.17	0.17	0.99	
2-9	9.00	363	0.17	0.17	1.16	
2-10	10.00	363	0.17	0.17	1.32	
2-11	11.00	363	0.17	0.17	1.49	
2-12	12.00	363	0.17	0.17	1.65	
2-13	13.00	363	0.17	0.17	1.82	
2-14	14.00	227	0.20	0.20	2.02	
2-15	15.00	197	0.28	0.28	2.30	
2-16	16.00	136	0.36	0.36	2.66	
2-17	17.00	121	0.47	0.47	3.13	
2-18	18.00	76	0.61	0.61	3.74	
2-19	19.00	76	0.79	0.79	4.53	
2-20	20.00	76	0.79	0.79	5.32	
2-21	21.00	76	0.79	0.79	6.12	
2-end	23.00	0	0.40	0.40	6.51	
					6.51	**Total Collected Runoff (approx)**
4.04 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	151	0.79	0.79	0.79	
4-2	2	91	0.50	0.50	1.29	
4-3	3	45	0.88	0.88	2.17	
4-4	4	30	1.59	1.59	3.76	
4-5	5	24	2.22	2.22	5.98	
4-6	6	17	2.93	2.93	8.91	
4-7	7	20	3.24	3.24	12.15	
4-8	8	26	2.61	2.61	14.76	
4-9	9	25	2.35	2.35	17.11	
4-10	10	24	2.45	2.45	19.56	
4-11	11	24	2.50	2.50	22.06	
4-12	12	20	2.73	2.73	24.79	
4-13	13	20	3.00	3.00	27.79	
4-14	14	20	3.00	3.00	30.79	
4-15	15	18	3.16	3.16	33.94	
4-16	16	18	3.33	3.33	37.28	
4-17	17	18	3.33	3.33	40.61	
4-18	18	18	3.33	3.33	43.94	
4-19	19	18	3.33	3.33	47.28	
4-20	20	18	3.33	3.33	50.61	
4-21	21	18	3.33	3.33	53.94	
4-end	25	0	1.67	1.67	55.61	
					55.61	**Total Collected Runoff (approx)**
6.04 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	45	2.64	2.64	2.64	
6-2	2	17	1.92	1.92	4.56	
6-3	3	14	3.87	3.87	8.43	
6-4	4	14	4.29	4.29	12.72	
6-5	5	14	4.29	4.29	17.01	
6-6	6	10	5.00	5.00	22.00	
6-7	7	10	6.00	6.00	28.00	
6-8	8	10	6.00	6.00	34.00	
6-9	9	10	6.00	6.00	40.00	
6-10	10	10	6.00	6.00	46.00	
6-11	11	10	6.00	6.00	52.00	
6-12	12	10	6.00	6.00	58.00	
6-13	13	10	6.00	6.00	64.00	
6-14	14	10	6.00	6.00	70.00	
6-15	15	10	6.00	6.00	76.00	
6-16	16	10	6.00	6.00	82.00	
6-17	17	10	6.00	6.00	88.00	
6-18	18	10	6.00	6.00	94.00	
6-19	19	10	6.00	6.00	100.00	
6-20	20	10	6.00	6.00	106.00	
6-21	21	10	6.00	6.00	111.99	
6-end	30	0	3.00	3.00	114.99	
					114.99	**Total Collected Runoff (approx)**

20-Apr-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.11 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	908	0.13	0.13	0.13	
2-2	2.00	757	0.07	0.07	0.20	
2-3	3.00	727	0.08	0.08	0.29	
2-4	4.00	712	0.08	0.08	0.37	
2-5	5.00	666	0.09	0.09	0.46	
2-6	6.00	575	0.10	0.10	0.55	
2-7	7.00	530	0.11	0.11	0.66	
2-8	8.00	530	0.11	0.11	0.77	
2-9	9.00	515	0.11	0.11	0.89	
2-10	10.00	485	0.12	0.12	1.01	
2-11	11.00	454	0.13	0.13	1.14	
2-12	12.00	454	0.13	0.13	1.27	
2-13	13.00	454	0.13	0.13	1.40	
2-14	14.00	424	0.14	0.14	1.54	
2-15	15.00	394	0.15	0.15	1.68	
2-16	16.00	363	0.16	0.16	1.84	
2-17	17.00	273	0.19	0.19	2.03	
2-18	18.00	242	0.23	0.23	2.26	
2-19	19.00	182	0.28	0.28	2.55	
2-20	20.00	121	0.40	0.40	2.94	
2-21	21.00	121	0.50	0.50	3.44	
2-end	21.00	0	0.25	0.25	3.69	
					3.69	**Total Collected Runoff (approx)**
4.21 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	151	0.79	0.79	0.79	
4-2	2	151	0.40	0.40	1.19	
4-3	3	33	0.65	0.65	1.84	
4-4	4	25	2.07	2.07	3.91	
4-5	5	23	2.50	2.50	6.41	
4-6	6	22	2.67	2.67	9.07	
4-7	7	20	2.86	2.86	11.93	
4-8	8	20	3.00	3.00	14.93	
4-9	9	18	3.16	3.16	18.09	
4-10	10	18	3.33	3.33	21.42	
4-11	11	18	3.33	3.33	24.75	
4-12	12	16	3.53	3.53	28.28	
4-13	13	15	3.87	3.87	32.15	
4-14	14	15	4.00	4.00	36.15	
4-15	15	15	4.00	4.00	40.15	
4-16	16	14	4.14	4.14	44.29	
4-17	17	14	4.29	4.29	48.58	
4-18	18	14	4.29	4.29	52.86	
4-19	19	14	4.29	4.29	57.15	
4-20	20	14	4.29	4.29	61.43	
4-21	21	14	4.29	4.29	65.72	
4-end	22	0	2.14	2.14	67.86	
					67.86	**Total Collected Runoff (approx)**
6.04 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	121	0.99	0.99	0.99	
6-2	2	18	0.86	0.86	1.85	
6-3	3	13	3.87	3.87	5.72	
6-4	4	11	5.00	5.00	10.72	
6-5	5	11	5.45	5.45	16.18	
6-6	6	11	5.45	5.45	21.63	
6-7	7	10	5.71	5.71	27.34	
6-8	8	10	6.00	6.00	33.34	
6-9	9	10	6.00	6.00	39.34	
6-10	10	9	6.32	6.32	45.66	
6-11	11	9	6.67	6.67	52.32	
6-12	12	9	6.67	6.67	58.99	
6-13	13	9	6.67	6.67	65.66	
6-14	14	9	6.67	6.67	72.32	
6-15	15	8	7.06	7.06	79.38	
6-16	16	8	7.50	7.50	86.88	
6-17	17	8	7.50	7.50	94.38	
6-18	18	8	7.50	7.50	101.88	
6-19	19	8	7.50	7.50	109.38	
6-20	20	8	7.50	7.50	116.88	
6-21	21	15	5.22	5.22	122.09	
6-end	30	0	3.75	3.75	125.84	
					125.84	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	18-Apr-12	12-Apr-12	20-Apr-12
Avg Moisture Content:	**20.57%**	**19.09%**	**21.68%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	247.97	252.99	257.21
Wt. Of cup + dry soil, g	242.92	247.23	249.9
Wt. Of cup, g	216.6	216.6	216.5
Wt. Of dry soil, g	26.32	30.63	33.4
Wt. Of water, g	5.05	5.76	7.31
Water Content, w%	19.2%	18.8%	21.9%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	259.51	257.22	263.76
Wt. Of cup + dry soil, g	252.19	250.72	255.31
Wt. Of cup, g	216.71	216.71	216.56
Wt. Of dry soil, g	35.48	34.01	38.75
Wt. Of water, g	7.32	6.5	8.45
Water Content, w%	20.6%	19.1%	21.8%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	250.41	247.63	259.05
Wt. Of cup + dry soil, g	244.42	242.67	251.64
Wt. Of cup, g	217.06	217.06	216.93
Wt. Of dry soil, g	27.36	25.61	34.71
Wt. Of water, g	5.99	4.96	7.41
Water Content, w%	21.9%	19.4%	21.3%

Soil Loss Data

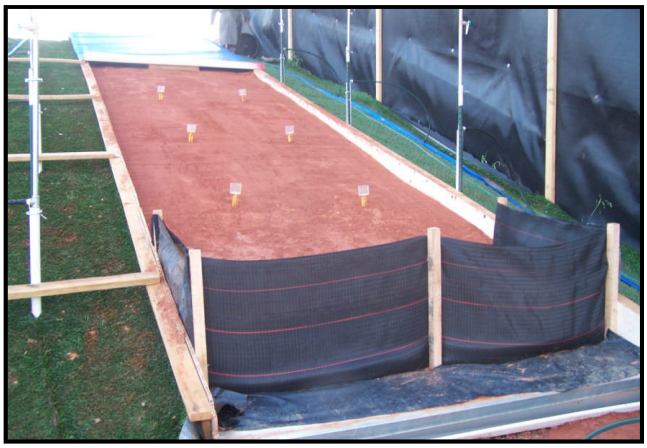
Slope No.	1	2	3
Test Date:	18-Apr-12	12-Apr-12	20-Apr-12
Total Soil Loss	**1.70**	**1.83**	**2.13**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		11.2	19.5	19.9
Sub-Sample	Wt. Of cup + wet soil, g	11.2	19.5	19.9
	Wt. Of cup + dry soil, g	11.2	19.5	19.9
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	11.2	19.5	19.9
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.025	0.043	0.044

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		222	271	322
Sub-Sample	Wt. Of cup + wet soil, g	222	271	322
	Wt. Of cup + dry soil, g	222	271	322
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	222	271	322
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.489	0.597	0.709

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		538	542	626
Sub-Sample	Wt. Of cup + wet soil, g	538	542	626
	Wt. Of cup + dry soil, g	538	542	626
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	538	542	626
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		1.185	1.194	1.379

TYPICAL TESTING PICTURES



Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 13-Apr-12 | Start Rain: 7:16 AM | End Rain: 7:36 AM

Sampling interval: 0:03 | End Runoff: 7:39 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: GA-CSA | Descr:. C-System Silt Fence

Lot #: | Posts: | Spacing:

TOP OF SLOPE

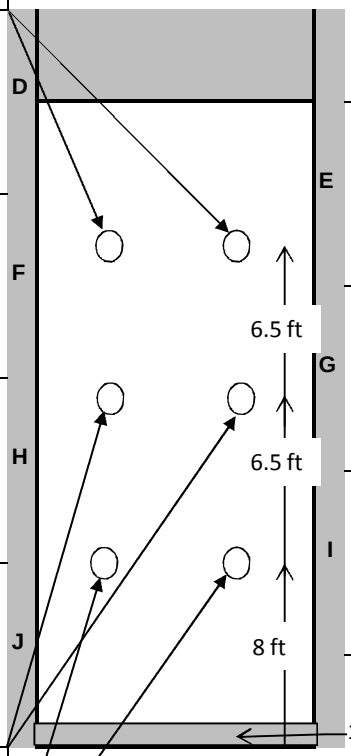
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.1%

d = 16 20 mm

i = 1.89 2.36 in/hr



x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
x						X
x	P = 9 psi	J				x
X						
x						

d = 18 16 mm

i = 2.13 1.89 in/hr

w_{c2} = 22.5%

d = 16 16 mm

i = 1.89 1.89 in/hr

w_{c3} = 21.7%

x x **X** x

P = 9 psi

Temp. 47 deg

Hum. 78 %

Average Depth: **17** **mm**

Avg Rainfall Intensity: **2.01** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:19	X	X
7:22	X	X
7:25	X	X
7:28	X	X
7:31	X	X
7:34	X	X
7:37	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	60
2	250	38
3	250	30
4	250	31
5	250	30
6	250	30
7	250	30
8	250	30
9	250	28
10	250	26
11	250	25
12	250	25
13	250	25
14	250	25
15	250	22
16	250	18
17	250	15
18	250	13
19	250	10
20	250	7
21	250	14
23	250	0

NOTES:
Wind: 0 mph. Direction: W
Approx 4 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date:	13-Apr-12	Start Rain:	7:47 AM	End Rain:	8:07 AM
		Sampling interval:	0:03	End Runoff:	8:17 AM
		Rain Time (min):	20.00	Test Time (min):	30.00
Product:	GA-CSA	Descr:.	C-System Silt Fence		
Lot #:		Posts:		Spacing:	

TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.1%

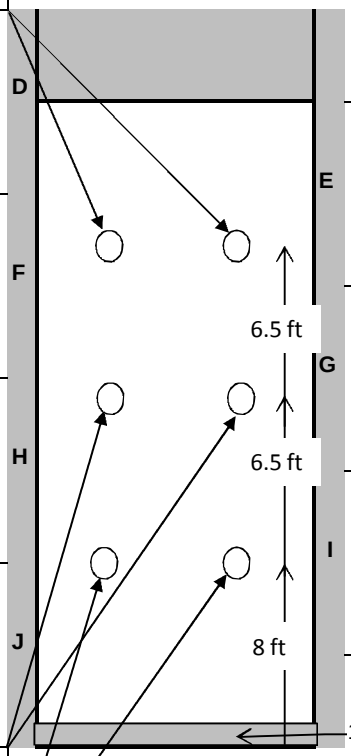
d =	32	33	mm
i =	3.78	3.90	in/hr

x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
x P = 9 psi **J**
X
x



x
x
x
E P = 9 psi **X**
x
x
x
G P = 9 psi x
X
x
x
I P = 9 psi x
X
x

x x **X** x

P = 9 psi

Temp. 47 deg

Hum. 78 %

d =	36	36	mm
i =	4.25	4.25	in/hr

w_{c2} = 22.5%

d =	32	37	mm
i =	3.78	4.37	in/hr

w_{c3} = 21.7%

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.06** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:50	X	X
7:53	X	X
7:56	X	X
7:59	X	X
8:02	X	X
8:05	X	X
8:08	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	5
2	250	4
3	3785	16
4	3785	16
5	3785	16
6	3785	16
7	3785	15
8	3785	15
9	3785	15
10	3785	15
11	3785	15
12	3785	15
13	3785	14
14	3785	14
15	3785	14
16	3785	14
17	3785	14
18	3785	14
19	3785	14
20	3785	14
21	3785	20
30	3785	0

NOTES:
Wind: 0 mph. Direction: W
Approx 80 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 13-Apr-12 | Start Rain: 8:23 AM | End Rain: 8:43 AM

Sampling interval: 0:03 | End Runoff: 8:53 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: GA-CSA | Descr:. C-System Silt Fence

Lot #: | Posts: | Spacing:

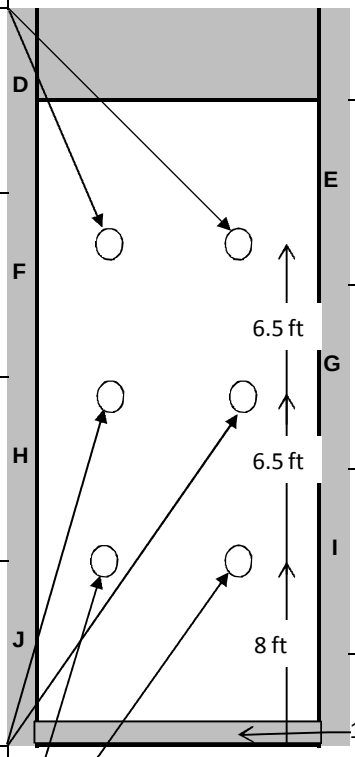
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.1%

d =	49	52	mm
i =	5.79	6.14	in/hr



x							x
X	P =	9	psi	D			x
x							x
x					E	P = 9 psi	X
x							x
X	P =	9	psi	F			x
x							x
x					G	P = 9 psi	x
x							X
x	P =	9	psi	H			x
X							x
x					I	P = 9 psi	x
x							X
x	P =	9	psi	J			x
X							
x							

d =	51	53	mm
i =	6.02	6.26	in/hr

x x **X** x

P = 9 psi | Temp. 47 deg | Hum. 78 %

w_{c2} = 22.5%

d =	49	51	mm
i =	5.79	6.02	in/hr

w_{c3} = 21.7%

Average Depth: 51 mm

Avg Rainfall Intensity: 6.00 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:26	X	X
8:29	X	X
8:32	X	X
8:35	X	X
8:38	X	X
8:41	X	X
8:44	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	8
2	3785	44
3	3785	26
4	3785	20
5	3785	12
6	3785	9
7	3785	9
8	3785	9
9	3785	8
10	3785	8
11	3785	8
12	3785	7
13	3785	7
14	3785	7
15	3785	7
16	3785	7
17	3785	7
18	3785	7
19	3785	7
20	3785	6
21	3785	12
30	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 140 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date:	17-Apr-12	Start Rain:	7:15 AM	End Rain:	7:35 AM
		Sampling interval:	0:03	End Runoff:	7:38 AM
		Rain Time (min):	20.00	Test Time (min):	23.00
Product:	GA-CSA	Descr:.	C-System Silt Fence		
Lot #:		Posts:		Spacing:	

TOP OF SLOPE

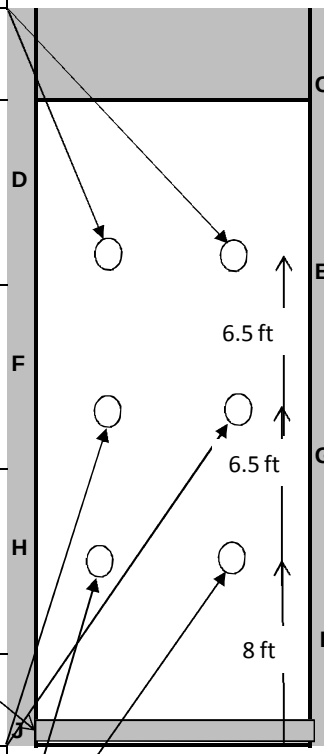
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.1%

d = 17 15 mm

i = 2.01 1.77 in/hr



x								x
				C	P =	9	psi	X
x								x
X	P =	9	psi	D				x
x								x
x				E	P =	9	psi	X
x								x
X	P =	9	psi	F				x
x								x
x				G	P =	9	psi	x
x								X
x	P =	9	psi	H				x
X								x
x				I	P =	9	psi	x
								X
				J				x

d = 19 18 mm

i = 2.24 2.13 in/hr

w_{c2} = 22.5%

d = 19 17 mm

i = 2.24 2.01 in/hr

w_{c3} = 21.7%

x x **X** x

P = 9 psi

Temp. 64 deg

Hum. 89 %

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.07** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:18	X	X
7:21	X	X
7:24	X	X
7:27	X	X
7:30	X	X
7:33	X	X
7:36	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	30
2	250	20
3	250	19
4	250	18
5	250	18
6	250	18
7	250	17
8	250	17
9	250	17
10	250	17
11	250	17
12	250	17
13	250	17
14	250	16
15	250	15
16	250	7
17	250	7
18	250	5
19	250	3
20	250	3
21	250	3
23	250	0

NOTES:

Wind: 0 mph. Direction: W

Approx 10 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 17-Apr-12 | Start Rain: 7:42 AM | End Rain: 8:02 AM

Sampling interval: 0:03 | End Runoff: 8:06 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: GA-CSA | Descr:. C-System Silt Fence

Lot #: | Posts: | Spacing:

TOP OF SLOPE

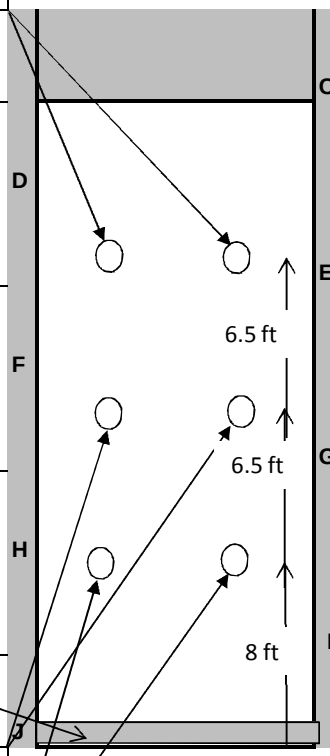
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.1%

d = 33 31 mm

i = 3.90 3.66 in/hr



					C	P = 9 psi	x	X
x							x	
X	P = 9 psi	D					x	
x							x	
x					E	P = 9 psi	X	
x							x	
X	P = 9 psi	F					x	
x							x	
x					G	P = 9 psi	x	
x							X	
x	P = 9 psi	H					x	
X							x	
x					I	P = 9 psi	x	
							X	
					J		x	

d = 35 38 mm

i = 4.13 4.49 in/hr

x x **X** x

P = 9 psi

Temp. 64 deg

Hum. 89 %

w_{c2} = 22.5%

d = 33 37 mm

i = 3.90 4.37 in/hr

w_{c3} = 21.7%

Average Depth: 35 mm

Avg Rainfall Intensity: 4.07 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:45	X	X
7:48	X	X
7:51	X	X
7:54	X	X
7:57	X	X
8:00	X	X
8:03	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	5
2	3785	23
3	3785	21
4	3785	21
5	3785	21
6	3785	21
7	3785	21
8	3785	20
9	3785	20
10	3785	17
11	3785	17
12	3785	15
13	3785	13
14	3785	14
15	3785	15
16	3785	15
17	3785	15
18	3785	14
19	3785	13
20	3785	13
21	3785	18
24	3785	0

NOTES:

Wind: 0 mph. Direction: W

Approx 75 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date: 17-Apr-12 | Start Rain: 8:12 AM | End Rain: 8:32 AM

Sampling interval: 0:03 | End Runoff: 8:36 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: GA-CSA | Descr:. C-System Silt Fence

Lot #: | Posts: | Spacing:

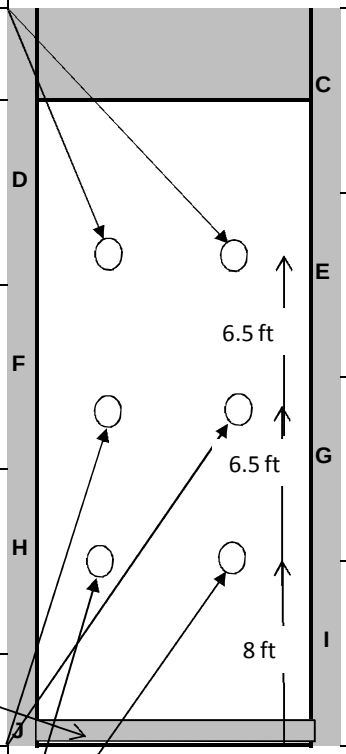
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.1%

d =	50	54	mm
i =	5.91	6.38	in/hr



				C	P = 9 psi	X
x				D		x
X	P =	9	psi			x
x				E	P = 9 psi	X
x				F		x
X	P =	9	psi			x
x				G	P = 9 psi	x
x				H		X
x	P =	9	psi			x
X				I	P = 9 psi	x
x				J		X

d =	54	54	mm
i =	6.38	6.38	in/hr

x x **X** x

P = 9 psi | Temp. 36 deg | Hum. 76 %

w_{c2} = 22.5%

d =	49	49	mm
i =	5.79	5.79	in/hr

w_{c3} = 21.7%

Average Depth: **52** **mm**

Avg Rainfall Intensity: **6.10** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:15	X	X
8:18	X	X
8:21	X	X
8:24	X	X
8:27	X	X
8:30	X	X
8:33	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	40
2	3785	18
3	3785	12
4	3785	9
5	3785	9
6	3785	9
7	3785	9
8	3785	9
9	3785	9
10	3785	8
11	3785	8
12	3785	8
13	3785	8
14	3785	8
15	3785	8
16	3785	7
17	3785	7
18	3785	7
19	3785	7
20	3785	7
21	3785	10
24	3785	0

NOTES:

Wind: 0 mph. Direction: w

Approx 150 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date:	20-Apr-12	Start Rain:	9:12 AM	End Rain:	9:32 AM
		Sampling interval:	0:03	End Runoff:	9:34 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	GA-CSA	Descr:.	C-System Silt Fence		
Lot #:		Posts:		Spacing:	

TOP OF SLOPE

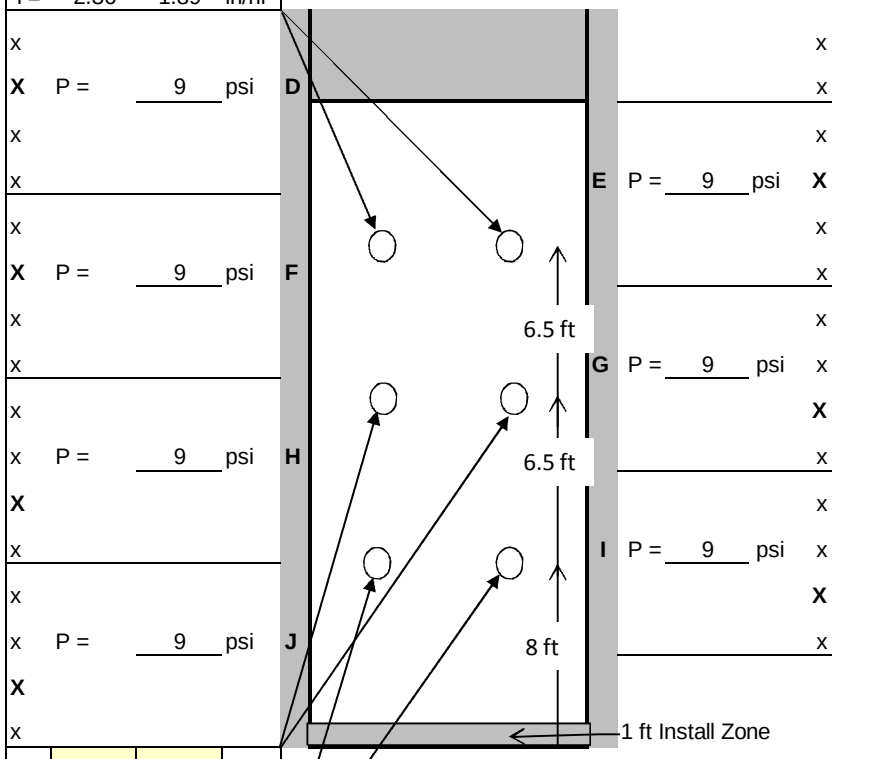
w_{c1} = 22.1%

(circle "x" for open valves)

Set valves to 16 psi.

d = 20 16 mm

i = 2.36 1.89 in/hr



d = 20 17 mm

i = 2.36 2.01 in/hr

w_{c2} = 22.5%

d = 16 17 mm

i = 1.89 2.01 in/hr

w_{c3} = 21.7%

x x **X** x

P = 9 psi

Temp. 59 deg

Hum. 91 %

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.09** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:15	X	X
9:18	X	X
9:21	X	X
9:24	X	X
9:27	X	X
9:30	X	X
9:33	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	50
2	250	40
3	250	34
4	250	29
5	250	28
6	250	27
7	250	26
8	250	25
9	250	23
10	250	23
11	250	22
12	250	20
13	250	20
14	250	20
15	250	20
16	250	20
17	250	15
18	250	11
19	250	10
20	250	8
21	250	15
22	250	0

NOTES:
Wind: 0-1 mph. Direction: E
Approx 4 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date: 20-Apr-12 | Start Rain: 9:40 AM | End Rain: 10:00 AM

Sampling interval: 0:03 | End Runoff: 10:04 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: GA-CSA | Descr:. C-System Silt Fence

Lot #: | Posts: | Spacing:

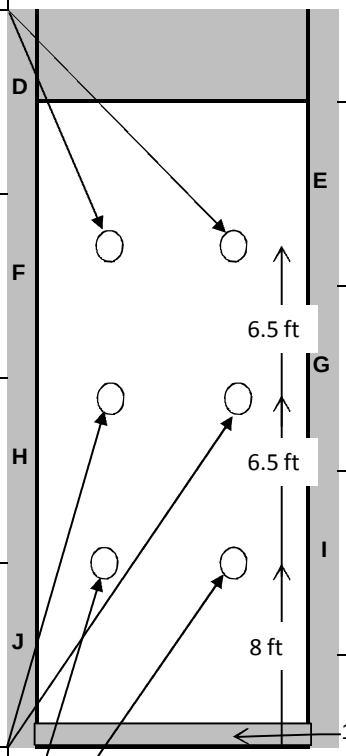
TOP OF SLOPE

(circle "x" for open valves) **Set valves to 16 psi.**

w_{c1} = 22.1%

d = 36 34 mm

i = 4.25 4.02 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 36 34 mm

i = 4.25 4.02 in/hr

w_{c2} = 22.5%

d = 33 35 mm

i = 3.90 4.13 in/hr

w_{c3} = 21.7%

x x **X** x

P = 9 psi Temp. 59 deg

Hum. 88 %

Average Depth: **35** **mm**

Avg Rainfall Intensity: **4.09** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:43	X	X
9:46	X	X
9:49	X	X
9:52	X	X
9:55	X	X
9:58	X	X
10:01	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	10
2	3785	34
3	3785	18
4	3785	18
5	3785	18
6	3785	16
7	3785	16
8	3785	15
9	3785	15
10	3785	15
11	3785	14
12	3785	14
13	3785	14
14	3785	14
15	3785	14
16	3785	14
17	3785	14
18	3785	14
19	3785	14
20	3785	14
21	3785	20
24	3785	0

NOTES:
Wind: 0 mph. Direction: E
Approx 75 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 20-Apr-12 | Start Rain: 10:11 AM | End Rain: 10:31 AM

Sampling interval: 0:03 | End Runoff: 10:41 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: GA-CSA | Descr:. C-System Silt Fence

Lot #: | Posts: | Spacing:

TOP OF SLOPE

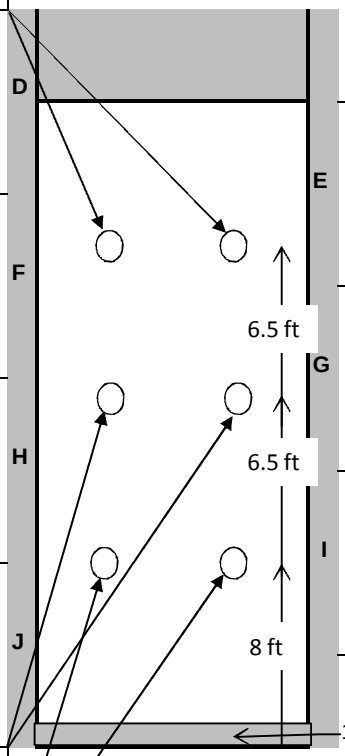
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.1%

d = 54 48 mm

i = 6.38 5.67 in/hr



x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
x					X
x	P = 9 psi	J			x
X					
x					

d = 52 50 mm

i = 6.14 5.91 in/hr

w_{c2} = 22.5%

d = 50 51 mm

i = 5.91 6.02 in/hr

w_{c3} = 21.7%

x x **X** x

P = 9 psi

Temp. 60 deg

Hum. 87 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
10:14	X	X
10:17	X	X
10:20	X	X
10:23	X	X
10:26	X	X
10:29	X	X
10:32	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	55
2	3785	20
3	3785	10
4	3785	9
5	3785	9
6	3785	9
7	3785	9
8	3785	9
9	3785	8
10	3785	8
11	3785	8
12	3785	8
13	3785	8
14	3785	8
15	3785	7
16	3785	7
17	3785	7
18	3785	7
19	3785	7
20	3785	7
21	3785	18
30	3785	0

NOTES:

Wind: 1 mph. Direction: E

Approx 145 gallons collected.

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	75
2	20	62.6
3	20	92.6

GA-CSA C-System Silt Fence

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	377	2-1	3.00	496	2-1	3.00	395
2-2	6.00	318	2-2	6.00	421	2-2	6.00	375
2-3	9.00	227	2-3	9.00	294	2-3	9.00	337
2-4	12.00	204	2-4	12.00	268	2-4	12.00	307
2-5	15.00	684	2-5	15.00	2550	2-5	15.00	437
2-6	18.00	1425	2-6	18.00	3541	2-6	18.00	2647
2-7	21.00	2658	2-7	21.00	2110	2-7	21.00	1860
avg		**842**	avg		**1383**	avg		**908**
4-1	3.00	3342	4-1	2.00	3094	4-1	2.00	3544
4-2	6.00	2190	4-2	4.00	2128	4-2	4.00	2861
4-3	9.00	1838	4-3	6.00	2430	4-3	6.00	2387
4-4	12.00	1981	4-4	8.00	2234	4-4	8.00	2202
4-5	15.00	1838	4-5	10.00	2044	4-5	10.00	1874
4-6	18.00	1800	4-6	12.00	2017	4-6	12.00	2383
4-7	21.00	1742	4-7	21.00	1722	4-7	21.00	1701
avg		**2104**	avg		**2238**	avg		**2422**
6-1	3.00	2386	6-1	3.00	2052	6-1	3.00	2080
6-2	6.00	1950	6-2	6.00	1889	6-2	6.00	2300
6-3	9.00	1882	6-3	9.00	1939	6-3	9.00	2037
6-4	12.00	1683	6-4	12.00	1945	6-4	12.00	1987
6-5	15.00	1636	6-5	15.00	1881	6-5	15.00	1918
6-6	18.00	1662	6-6	18.00	1971	6-6	18.00	1654
6-7	21.00	1384	6-7	21.00	1744	6-7	21.00	1382
avg		**1798**	avg		**1917**	avg		**1908**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.01	in/hr	avg														
13-Apr-12		2-1	3.00	329.46	151.00	151.00	151.00	0.00	178.46	0.18	0.00	3.00	454.25	0.33	0.00	0.00
		2-2	6.00	342.50	152.46	149.91	149.63	280.00	192.59	0.19	1453.87	6.00	454.25	0.39	1453.87	0.00
		2-3	9.00	287.53	150.05	150.05	150.05	0.00	137.48	0.14	0.00	9.00	423.97	0.40	0.00	0.00
		2-4	12.00	325.48	150.85	150.85	150.85	0.00	174.63	0.17	0.00	12.00	378.54	0.46	0.00	0.00
		2-5	15.00	334.40	154.87	151.30	151.26	40.00	183.10	0.18	218.46	15.00	333.12	0.49	218.46	0.00
		2-6	18.00	313.83	157.95	150.91	148.13	2780.00	162.92	0.16	17063.59	18.00	196.84	0.72	17063.59	0.10
		2-7	21.00	307.00	152.31	149.56	149.31	250.00	157.44	0.16	1587.91	21.00	211.98	1.19	1587.91	0.02
										AVG =	**2903.40**	23.00	0	0.28	1587.91	0.00
4.06	in/hr	avg									2903.40			**Total Solids Lost:**		**0.13**
13-Apr-12		4-1	3.00	326.71	165.16	147.23	145.76	1470.00	179.48	0.18	8190.33	3.00	16.00	4.03	8190.33	0.28
		4-2	6.00	306.79	184.34	151.39	150.76	630.00	155.40	0.16	4054.05	6.00	16.00	11.25	4054.05	0.38
		4-3	9.00	344.02	181.50	151.31	150.77	540.00	192.71	0.19	2802.14	9.00	15.00	11.87	2802.14	0.28
		4-4	12.00	312.51	168.32	152.34	151.86	480.00	160.17	0.16	2996.82	12.00	15.00	12.00	2996.82	0.30
		4-5	15.00	302.71	156.88	150.98	150.54	440.00	151.73	0.15	2899.89	15.00	14.00	12.71	2899.89	0.31
		4-6	18.00	348.97	160.47	150.43	149.69	740.00	198.54	0.20	3727.21	18.00	14.00	12.86	3727.21	0.40
		4-7	21.00	341.85	173.26	150.96	150.37	590.00	190.89	0.19	3090.79	21.00	20.00	12.10	3090.79	0.31
										AVG =	**3965.89**	30.00	0.00	2.14	3090.79	0.06
6.00	in/hr	avg									3965.89			**Total Solids Lost:**		**2.31**
13-Apr-12		6-1	3.00	301.27	172.83	151.57	151.00	570.00	149.70	0.15	3807.62	3.00	26.00	3.43	3807.62	0.11
		6-2	6.00	339.69	163.89	151.18	150.69	490.00	188.51	0.19	2599.33	6.00	9.00	12.07	2599.33	0.26
		6-3	9.00	319.49	172.07	152.03	151.67	360.00	167.46	0.17	2149.77	9.00	8.00	20.39	2149.77	0.37
		6-4	12.00	324.76	160.28	150.75	150.15	600.00	174.01	0.17	3448.08	12.00	7.00	23.00	3448.08	0.66
		6-5	15.00	336.07	155.89	151.22	150.07	1150.00	184.85	0.18	6221.26	15.00	7.00	25.71	6221.26	1.33
		6-6	18.00	327.61	163.23	151.61	150.84	770.00	176.00	0.18	4375.00	18.00	7.00	25.71	4375.00	0.94
		6-7	21.00	349.20	149.97	150.83	149.97	860.00	198.37	0.20	4335.33	21.00	12.00	24.47	4335.33	0.88
										AVG =	**3848.06**	30.00	0.00	5.00	4335.33	0.18
											3848.06			**Total Solids Lost:**		**4.74**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.07	in/hr	avg														
17-Apr-12		2-1	3.00	331.12	147.25	147.25	147.25	0.00	183.87	0.18	0.00	3.00	287.69	0.63	0.00	0.00
		2-2	6.00	321.03	147.09	147.09	147.09	0.00	173.94	0.17	0.00	6.00	272.55	0.65	0.00	0.00
		2-3	9.00	318.36	147.18	147.18	147.18	0.00	171.18	0.17	0.00	9.00	257.41	0.69	0.00	0.00
		2-4	12.00	329.34	147.73	147.73	147.73	0.00	181.61	0.18	0.00	12.00	257.41	0.70	0.00	0.00
		2-5	15.00	328.82	171.84	148.39	147.18	1210.00	180.43	0.18	6706.20	15.00	227.12	0.73	6706.20	0.04
		2-6	18.00	341.33	160.57	151.45	150.53	920.00	189.88	0.19	4845.17	18.00	75.71	1.59	4845.17	0.06
		2-7	21.00	325.88	157.66	149.68	149.15	530.00	176.20	0.18	3007.95	21.00	45.42	3.63	3007.95	0.09
										AVG =	**2079.90**	23.00	0.00	0.66	3007.95	0.02
4.07	in/hr	avg									2079.90			**Total Solids Lost:**		**0.21**
17-Apr-12		4-1	3.00	280.43	170.24	151.38	150.74	640.00	129.05	0.13	4959.32	3.00	21.00	5.53	4959.32	0.23
		4-2	6.00	322.38	161.29	150.87	149.44	1430.00	171.51	0.17	8337.71	6.00	21.00	8.57	8337.71	0.60
		4-3	9.00	326.06	164.43	151.82	151.29	530.00	174.24	0.17	3041.78	9.00	20.00	8.78	3041.78	0.22
		4-4	12.00	314.37	163.35	146.61	146.00	610.00	167.76	0.17	3636.15	12.00	15.00	10.52	3636.15	0.32
		4-5	15.00	310.33	162.28	149.98	149.60	380.00	160.35	0.16	2369.82	15.00	15.00	12.87	2369.82	0.25
		4-6	18.00	353.28	158.33	150.99	150.39	600.00	202.29	0.20	2966.04	18.00	14.00	12.14	2966.04	0.30
		4-7	21.00	329.91	154.68	148.10	147.36	740.00	181.81	0.18	4070.18	21.00	18.00	12.93	4070.18	0.44
										AVG =	**4197.28**	24.00	0.00	2.31	4070.18	0.08
6.10	in/hr	avg									4197.28			**Total Solids Lost:**		**2.44**
17-Apr-12		6-1	3.00	328.81	157.12	149.04	147.94	1100.00	179.77	0.18	6118.93	3.00	12.00	9.07	6118.93	0.46
		6-2	6.00	338.86	159.55	150.14	149.65	490.00	188.72	0.19	2596.44	6.00	9.00	19.05	2596.44	0.41
		6-3	9.00	336.85	163.94	147.29	146.62	670.00	189.56	0.19	3534.50	9.00	9.00	20.00	3534.50	0.59
		6-4	12.00	336.49	168.37	147.13	146.28	850.00	189.36	0.19	4488.80	12.00	8.00	22.06	4488.80	0.83
		6-5	15.00	333.68	152.48	146.44	145.53	910.00	187.24	0.19	4860.07	15.00	8.00	22.50	4860.07	0.91
		6-6	18.00	328.46	163.05	150.74	150.07	670.00	177.72	0.18	3769.98	18.00	7.00	25.14	3769.98	0.79
		6-7	21.00	334.68	156.82	151.59	151.04	550.00	183.09	0.18	3003.99	21.00	10.00	24.20	3003.99	0.61
										AVG =	**4053.24**	24.00	0.00	4.29	3003.99	0.11
											4053.24			**Total Solids Lost:**		**4.71**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.09	in/hr	avg														
20-Apr-12		2-1	3.00	315.51	149.99	149.99	149.99	0.00	165.52	0.17	0.00	3.00	514.82	0.35	0.00	0.00
		2-2	6.00	328.81	156.59	156.59	156.59	0.00	172.22	0.17	0.00	6.00	408.82	0.41	0.00	0.00
		2-3	9.00	330.98	149.99	149.99	149.99	0.00	180.99	0.18	0.00	9.00	348.26	0.47	0.00	0.00
		2-4	12.00	323.16	151.78	151.78	151.78	0.00	171.38	0.17	0.00	12.00	302.83	0.54	0.00	0.00
		2-5	15.00	331.62	149.44	149.44	149.44	0.00	182.18	0.18	0.00	15.00	302.83	0.59	0.00	0.00
		2-6	18.00	335.62	187.97	151.59	151.40	190.00	184.03	0.18	1032.44	18.00	166.56	0.73	1032.44	0.01
		2-7	21.00	324.29	175.45	150.74	146.99	3750.00	173.55	0.17	21607.61	21.00	227.12	1.16	21607.61	0.21
										AVG =	**3234.29**	22.00	0.00	0.25	21607.61	0.04
4.09	in/hr	avg									3234.29			**Total Solids Lost:**		**0.26**
20-Apr-12		4-1	3.00	321.28	177.66	151.16	149.93	1230.00	170.12	0.17	7230.19	3.00	18.00	3.75	7230.19	0.04
		4-2	6.00	354.24	181.28	152.39	151.35	1040.00	201.85	0.20	5152.34	6.00	16.00	10.19	5152.34	0.44
		4-3	9.00	329.92	169.85	148.89	147.65	1240.00	181.03	0.18	6849.69	9.00	15.00	11.62	6849.69	0.66
		4-4	12.00	323.88	179.78	150.09	149.11	980.00	173.79	0.17	5638.99	12.00	14.00	12.42	5638.99	0.58
		4-5	15.00	345.26	178.38	149.63	149.21	420.00	195.63	0.20	2146.91	15.00	14.00	12.86	2146.91	0.23
		4-6	18.00	335.07	173.27	148.52	147.33	1190.00	186.55	0.19	6378.99	18.00	14.00	12.86	6378.99	0.68
		4-7	21.00	336.83	162.65	151.17	150.60	570.00	185.66	0.19	3070.13	21.00	20.00	12.10	3070.13	0.31
										AVG =	**5209.61**	24.00	0.00	2.14	3070.13	0.05
6.00	in/hr	avg									5209.61			**Total Solids Lost:**		**3.01**
20-Apr-12		6-1	3.00	330.39	161.90	148.57	147.45	1120.00	181.82	0.18	6159.94	3.00	10.00	7.78	6159.94	0.40
		6-2	6.00	334.44	154.11	150.02	149.58	440.00	184.42	0.18	2385.86	6.00	9.00	19.65	2385.86	0.39
		6-3	9.00	339.42	157.99	148.39	148.06	330.00	191.03	0.19	1727.48	9.00	8.00	20.39	1727.48	0.29
		6-4	12.00	340.57	159.92	150.68	150.38	300.00	189.89	0.19	1579.86	12.00	8.00	22.50	1579.86	0.30
		6-5	15.00	318.88	159.49	150.29	149.50	790.00	168.59	0.17	4685.92	15.00	7.00	23.00	4685.92	0.90
		6-6	18.00	341.86	165.53	149.71	147.75	1960.00	192.15	0.19	10200.36	18.00	7.00	25.71	10200.36	2.19
		6-7	21.00	350.81	159.51	146.67	146.45	220.00	204.14	0.20	1077.69	21.00	18.00	21.94	1077.69	0.20
										AVG =	**3973.87**	30.00	0.00	4.29	1077.69	0.04
											3973.87			**Total Solids Lost:**		**4.70**

13-Apr-12
Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.01 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	908	0.13	0.13	0.13	
2-2	2.00	575	0.08	0.08	0.21	
2-3	3.00	454	0.12	0.12	0.33	
2-4	4.00	469	0.13	0.13	0.46	
2-5	5.00	454	0.13	0.13	0.59	
2-6	6.00	454	0.13	0.13	0.72	
2-7	7.00	454	0.13	0.13	0.85	
2-8	8.00	454	0.13	0.13	0.99	
2-9	9.00	424	0.14	0.14	1.12	
2-10	10.00	394	0.15	0.15	1.27	
2-11	11.00	379	0.16	0.16	1.42	
2-12	12.00	379	0.16	0.16	1.58	
2-13	13.00	379	0.16	0.16	1.74	
2-14	14.00	379	0.16	0.16	1.90	
2-15	15.00	333	0.17	0.17	2.07	
2-16	16.00	273	0.20	0.20	2.27	
2-17	17.00	227	0.24	0.24	2.51	
2-18	18.00	197	0.28	0.28	2.79	
2-19	19.00	151	0.34	0.34	3.13	
2-20	20.00	106	0.47	0.47	3.60	
2-21	21.00	212	0.38	0.38	3.98	
2-end	23.00	0	0.28	0.28	4.26	
					4.26	**Total Collected Runoff (approx)**
4.06 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	76	1.59	1.59	1.59	
4-2	2	61	0.88	0.88	2.47	
4-3	3	16	1.57	1.57	4.03	
4-4	4	16	3.75	3.75	7.78	
4-5	5	16	3.75	3.75	11.53	
4-6	6	16	3.75	3.75	15.28	
4-7	7	15	3.87	3.87	19.15	
4-8	8	15	4.00	4.00	23.15	
4-9	9	15	4.00	4.00	27.15	
4-10	10	15	4.00	4.00	31.15	
4-11	11	15	4.00	4.00	35.15	
4-12	12	15	4.00	4.00	39.15	
4-13	13	14	4.14	4.14	43.29	
4-14	14	14	4.29	4.29	47.57	
4-15	15	14	4.29	4.29	51.86	
4-16	16	14	4.29	4.29	56.14	
4-17	17	14	4.29	4.29	60.43	
4-18	18	14	4.29	4.29	64.71	
4-19	19	14	4.29	4.29	69.00	
4-20	20	14	4.29	4.29	73.28	
4-21	21	20	3.53	3.53	76.81	
4-end	30.00	0	2.14	2.14	78.96	
					78.96	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	121	0.99	0.99	0.99	
6-2	2	44	0.73	0.73	1.72	
6-3	3	26	1.71	1.71	3.43	
6-4	4	20	2.61	2.61	6.04	
6-5	5	12	3.75	3.75	9.79	
6-6	6	9	5.71	5.71	15.50	
6-7	7	9	6.67	6.67	22.17	
6-8	8	9	6.67	6.67	28.83	
6-9	9	8	7.06	7.06	35.89	
6-10	10	8	7.50	7.50	43.39	
6-11	11	8	7.50	7.50	50.89	
6-12	12	7	8.00	8.00	58.89	
6-13	13	7	8.57	8.57	67.46	
6-14	14	7	8.57	8.57	76.03	
6-15	15	7	8.57	8.57	84.60	
6-16	16	7	8.57	8.57	93.17	
6-17	17	7	8.57	8.57	101.74	
6-18	18	7	8.57	8.57	110.31	
6-19	19	7	8.57	8.57	118.88	
6-20	20	6	9.23	9.23	128.11	
6-21	21	12	6.67	6.67	134.78	
6-end	30.00	0	5.00	5.00	139.78	
					139.78	**Total Collected Runoff (approx)**

17-Apr-12
Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.07 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	454	0.26	0.26	0.26	
2-2	2.00	303	0.16	0.16	0.42	
2-3	3.00	288	0.20	0.20	0.63	
2-4	4.00	273	0.21	0.21	0.84	
2-5	5.00	273	0.22	0.22	1.06	
2-6	6.00	273	0.22	0.22	1.28	
2-7	7.00	257	0.23	0.23	1.51	
2-8	8.00	257	0.23	0.23	1.74	
2-9	9.00	257	0.23	0.23	1.97	
2-10	10.00	257	0.23	0.23	2.21	
2-11	11.00	257	0.23	0.23	2.44	
2-12	12.00	257	0.23	0.23	2.67	
2-13	13.00	257	0.23	0.23	2.91	
2-14	14.00	242	0.24	0.24	3.15	
2-15	15.00	227	0.26	0.26	3.40	
2-16	16.00	106	0.36	0.36	3.76	
2-17	17.00	106	0.57	0.57	4.33	
2-18	18.00	76	0.66	0.66	4.99	
2-19	19.00	45	0.99	0.99	5.98	
2-20	20.00	45	1.32	1.32	7.30	
2-21	21.00	45	1.32	1.32	8.62	
2-end	23.00	0	0.66	0.66	9.28	
					9.28	**Total Collected Runoff (approx)**
4.07 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	76	1.59	1.59	1.59	
4-2	2	23	1.22	1.22	2.80	
4-3	3	21	2.73	2.73	5.53	
4-4	4	21	2.86	2.86	8.38	
4-5	5	21	2.86	2.86	11.24	
4-6	6	21	2.86	2.86	14.10	
4-7	7	21	2.86	2.86	16.96	
4-8	8	20	2.93	2.93	19.88	
4-9	9	20	3.00	3.00	22.88	
4-10	10	17	3.24	3.24	26.12	
4-11	11	17	3.53	3.53	29.65	
4-12	12	15	3.75	3.75	33.40	
4-13	13	13	4.29	4.29	37.69	
4-14	14	14	4.44	4.44	42.13	
4-15	15	15	4.14	4.14	46.27	
4-16	16	15	4.00	4.00	50.27	
4-17	17	15	4.00	4.00	54.27	
4-18	18	14	4.14	4.14	58.41	
4-19	19	13	4.44	4.44	62.85	
4-20	20	13	4.61	4.61	67.46	
4-21	21	18	3.87	3.87	71.34	
4-end	24	0	2.31	2.31	73.64	
					73.64	**Total Collected Runoff (approx)**
6.10 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	40	3.00	3.00	3.00	
6-2	2	18	2.07	2.07	5.07	
6-3	3	12	4.00	4.00	9.07	
6-4	4	9	5.71	5.71	14.78	
6-5	5	9	6.67	6.67	21.45	
6-6	6	9	6.67	6.67	28.11	
6-7	7	9	6.67	6.67	34.78	
6-8	8	9	6.67	6.67	41.45	
6-9	9	9	6.67	6.67	48.11	
6-10	10	8	7.06	7.06	55.17	
6-11	11	8	7.50	7.50	62.67	
6-12	12	8	7.50	7.50	70.17	
6-13	13	8	7.50	7.50	77.67	
6-14	14	8	7.50	7.50	85.17	
6-15	15	8	7.50	7.50	92.67	
6-16	16	7	8.00	8.00	100.66	
6-17	17	7	8.57	8.57	109.24	
6-18	18	7	8.57	8.57	117.81	
6-19	19	7	8.57	8.57	126.38	
6-20	20	7	8.57	8.57	134.95	
6-21	21	10	7.06	7.06	142.00	
6-end	24	0	4.29	4.29	146.29	
					146.29	**Total Collected Runoff (approx)**

20-Apr-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.09 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	757	0.16	0.16	0.16	
2-2	2.00	606	0.09	0.09	0.25	
2-3	3.00	515	0.11	0.11	0.35	
2-4	4.00	439	0.13	0.13	0.48	
2-5	5.00	424	0.14	0.14	0.62	
2-6	6.00	409	0.14	0.14	0.76	
2-7	7.00	394	0.15	0.15	0.91	
2-8	8.00	379	0.16	0.16	1.07	
2-9	9.00	348	0.17	0.17	1.23	
2-10	10.00	348	0.17	0.17	1.40	
2-11	11.00	333	0.18	0.18	1.58	
2-12	12.00	303	0.19	0.19	1.77	
2-13	13.00	303	0.20	0.20	1.97	
2-14	14.00	303	0.20	0.20	2.17	
2-15	15.00	303	0.20	0.20	2.36	
2-16	16.00	303	0.20	0.20	2.56	
2-17	17.00	227	0.23	0.23	2.79	
2-18	18.00	167	0.30	0.30	3.09	
2-19	19.00	151	0.38	0.38	3.47	
2-20	20.00	121	0.44	0.44	3.91	
2-21	21.00	227	0.34	0.34	4.26	
2-end	22.00	0	0.25	0.25	4.50	
					4.50	**Total Collected Runoff (approx)**
4.09 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	151	0.79	0.79	0.79	
4-2	2	34	0.65	0.65	1.44	
4-3	3	18	2.31	2.31	3.75	
4-4	4	18	3.33	3.33	7.08	
4-5	5	18	3.33	3.33	10.41	
4-6	6	16	3.53	3.53	13.94	
4-7	7	16	3.75	3.75	17.69	
4-8	8	15	3.87	3.87	21.56	
4-9	9	15	4.00	4.00	25.56	
4-10	10	15	4.00	4.00	29.56	
4-11	11	14	4.14	4.14	33.70	
4-12	12	14	4.29	4.29	37.98	
4-13	13	14	4.29	4.29	42.27	
4-14	14	14	4.29	4.29	46.55	
4-15	15	14	4.29	4.29	50.84	
4-16	16	14	4.29	4.29	55.13	
4-17	17	14	4.29	4.29	59.41	
4-18	18	14	4.29	4.29	63.70	
4-19	19	14	4.29	4.29	67.98	
4-20	20	14	4.29	4.29	72.27	
4-21	21	20	3.53	3.53	75.80	
4-end	24	0	2.14	2.14	77.94	
					77.94	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	55	2.18	2.18	2.18	
6-2	2	20	1.60	1.60	3.78	
6-3	3	10	4.00	4.00	7.78	
6-4	4	9	6.32	6.32	14.10	
6-5	5	9	6.67	6.67	20.76	
6-6	6	9	6.67	6.67	27.43	
6-7	7	9	6.67	6.67	34.09	
6-8	8	9	6.67	6.67	40.76	
6-9	9	8	7.06	7.06	47.82	
6-10	10	8	7.50	7.50	55.32	
6-11	11	8	7.50	7.50	62.82	
6-12	12	8	7.50	7.50	70.32	
6-13	13	8	7.50	7.50	77.81	
6-14	14	8	7.50	7.50	85.31	
6-15	15	7	8.00	8.00	93.31	
6-16	16	7	8.57	8.57	101.88	
6-17	17	7	8.57	8.57	110.45	
6-18	18	7	8.57	8.57	119.02	
6-19	19	7	8.57	8.57	127.59	
6-20	20	7	8.57	8.57	136.17	
6-21	21	18	4.80	4.80	140.96	
6-end	30	0	4.29	4.29	145.25	
					145.25	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	13-Apr-12	17-Apr-12	20-Apr-12
Avg Moisture Content:	**22.14%**	**21.78%**	**21.31%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	268.11	271.9	60.87
Wt. Of cup + dry soil, g	258.77	262.1	55.2
Wt. Of cup, g	216.6	216.6	28.51
Wt. Of dry soil, g	42.17	45.5	26.69
Wt. Of water, g	9.34	9.8	5.67
Water Content, w%	22.1%	21.5%	21.2%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	276.18	265.38	63.9
Wt. Of cup + dry soil, g	265.24	256.71	57.73
Wt. Of cup, g	216.71	216.71	28.51
Wt. Of dry soil, g	48.53	40	29.22
Wt. Of water, g	10.94	8.67	6.17
Water Content, w%	22.5%	21.7%	21.1%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	261.56	254.39	74.91
Wt. Of cup + dry soil, g	253.62	247.63	66.68
Wt. Of cup, g	217.06	217.06	28.51
Wt. Of dry soil, g	36.56	30.57	38.17
Wt. Of water, g	7.94	6.76	8.23
Water Content, w%	21.7%	22.1%	21.6%

Soil Loss Data

Slope No.	1	2	3
Test Date:	13-Apr-12	17-Apr-12	20-Apr-12
Total Soil Loss	**7.04**	**7.54**	**7.90**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		59.0	95.3	118.0
Sub-Sample	Wt. Of cup + wet soil, g	59.0	95.3	118.0
	Wt. Of cup + dry soil, g	59.0	95.3	118.0
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	59	95.3	118
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.130	0.210	0.260

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		1080.5	1107.8	1366.5
Sub-Sample	Wt. Of cup + wet soil, g	1080.5	1107.8	1366.5
	Wt. Of cup + dry soil, g	1080.5	1107.8	1366.5
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	1080.5	1107.8	1366.5
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		2.380	2.440	3.010

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		2056.6	2220.1	2102.0
Sub-Sample	Wt. Of cup + wet soil, g	2056.6	2220.1	2102.0
	Wt. Of cup + dry soil, g	2056.6	2220.1	2102.0
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	2056.6	2220.1	2102.0
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		4.530	4.890	4.630

TYPICAL TESTING PICTURES



Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 25-Apr-12 | Start Rain: 9:09 AM | End Rain: 9:29 AM

Sampling interval: 0:03 | End Runoff: 9:31 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: 111F | Descr:. Propex Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

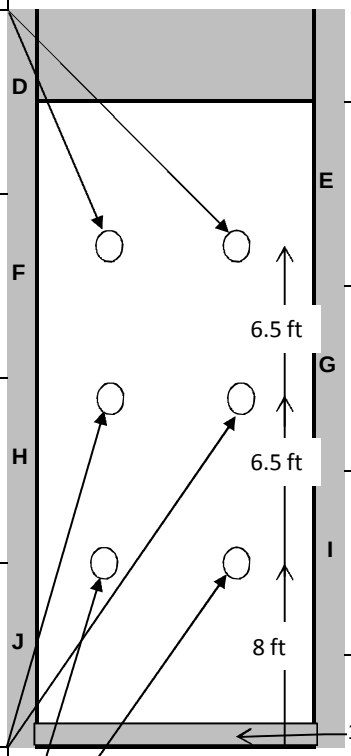
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 19 20 mm

i = 2.24 2.36 in/hr



x						x	
X	P =	9	psi	D		x	
x						x	
x					E	P = 9 psi	X
x						x	
X	P =	9	psi	F		x	
x						x	
x					G	P = 9 psi	x
x						X	
x	P =	9	psi	H		x	
X						x	
x					I	P = 9 psi	x
x						X	
x	P =	9	psi	J		x	
X							
x							

d = 15 19 mm

i = 1.77 2.24 in/hr

w_{c2} = 21.5%

d = 15 16 mm

i = 1.77 1.89 in/hr

w_{c3} = 21.8%

x x **X** x

P = 9 psi

Temp. 53 deg

Hum. 71 %

Average Depth: **17** **mm**

Avg Rainfall Intensity: **2.05** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:12	X	X
9:15	X	X
9:18	X	X
9:21	X	X
9:24	X	X
9:27	X	X
9:30	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	50
2	250	44
3	250	43
4	250	39
5	250	26
6	250	21
7	250	13
8	250	12
9	250	12
10	250	12
11	250	11
12	250	11
13	250	10
14	250	10
15	250	9
16	250	9
17	250	8
18	250	8
19	250	8
20	250	8
21	250	24
22	250	0

NOTES:
Wind: 0-3 mph. Direction: E
Approx 7 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 27-Apr-12 | Start Rain: 7:00 AM | End Rain: 7:20 AM

Sampling interval: 0:03 | End Runoff: 7:23 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: 111F | Descr:. Propex Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

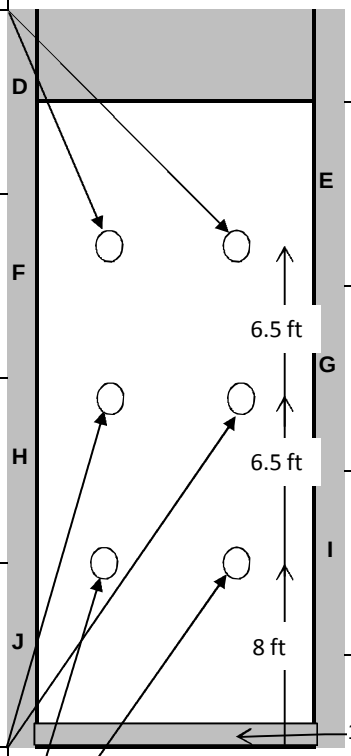
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 34 35 mm

i = 4.02 4.13 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 33 33 mm

i = 3.90 3.90 in/hr

w_{c2} = 21.5%

d = 33 34 mm

i = 3.90 4.02 in/hr

w_{c3} = 21.8%

x x **X** x

P = 9 psi

Temp. 61 deg

Hum. 92 %

Average Depth: 34 mm

Avg Rainfall Intensity: 3.98 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:03	X	X
7:06	X	X
7:09	X	X
7:12	X	X
7:15	X	X
7:18	X	X
7:21	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	15
2	250	13
3	250	11
4	250	9
5	3785	44
6	3785	34
7	3785	22
8	3785	14
9	3785	14
10	3785	15
11	3785	14
12	3785	14
13	3785	13
14	3785	13
15	3785	12
16	3785	12
17	3785	12
18	3785	12
19	3785	11
20	3785	11
21	3785	21
23	3785	0

NOTES:
Wind: 0 mph. Direction: N
Approx 70 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 27-Apr-12 | Start Rain: 7:30 AM | End Rain: 7:50 AM

Sampling interval: 0:03 | End Runoff: 8:00 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: 111F | Descr:. Propex Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

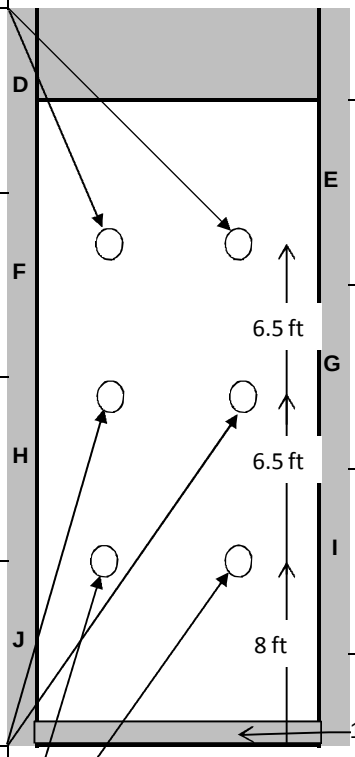
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 48 49 mm

i = 5.67 5.79 in/hr



x						x	
X	P =	9	psi	**D**		x	
x						x	
x					**E**	P = 9 psi	**X**
x						x	
X	P =	9	psi	**F**		x	
x						x	
x					**G**	P = 9 psi	x
x							**X**
x	P =	9	psi	**H**		x	
X						x	
x					**I**	P = 9 psi	x
x							**X**
x	P =	9	psi	**J**		x	
X							
x							

d = 50 55 mm

i = 5.91 6.50 in/hr

w_{c2} = 21.5%

d = 50 52 mm

i = 5.91 6.14 in/hr

w_{c3} = 21.8%

x x **X** x

P = 9 psi

Temp. 61 deg

Hum. 94 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **5.98** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:33	X	X
7:36	X	X
7:39	X	X
7:42	X	X
7:45	X	X
7:48	X	X
7:51	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	30
2	3785	10
3	3785	10
4	3785	10
5	3785	10
6	3785	9
7	3785	9
8	3785	9
9	3785	9
10	3785	9
11	3785	9
12	3785	9
13	3785	9
14	3785	9
15	3785	9
16	3785	9
17	3785	9
18	3785	9
19	3785	9
20	3785	9
21	3785	16
30	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 130 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date: 25-Apr-12 | Start Rain: 7:06 AM | End Rain: 7:26 AM

Sampling interval: 0:03 | End Runoff: 7:28 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: 111F | Descr:. Propex Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

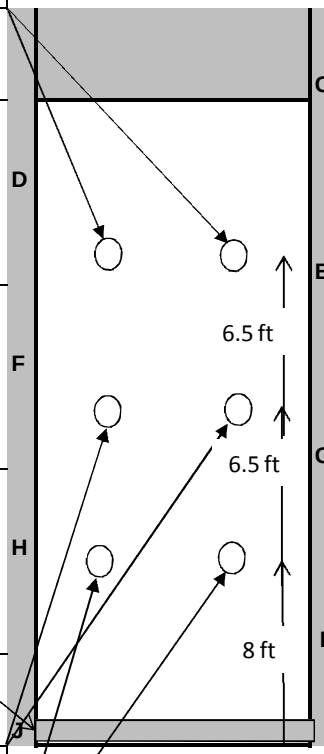
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 18 20 mm

i = 2.13 2.36 in/hr



x					x
			C	P = 9 psi	X
x					x
X	P = 9 psi		D		x
x					x
x					x
			E	P = 9 psi	X
x					x
X	P = 9 psi		F		x
x					x
x					x
			G	P = 9 psi	x
x					X
x	P = 9 psi		H		x
X					x
x					x
			I	P = 9 psi	x
					X
			J		x

d = 17 16 mm

i = 2.01 1.89 in/hr

w_{c2} = 21.5%

d = 16 16 mm

i = 1.89 1.89 in/hr

w_{c3} = 21.8%

x x **X** x

P = 9 psi

Temp. 46 deg

Hum. 83 %

Average Depth: **17** **mm**

Avg Rainfall Intensity: **2.03** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:09	X	X
7:12	X	X
7:15	X	X
7:18	X	X
7:21	X	X
7:24	X	X
7:27	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	45
2	250	45
3	250	44
4	250	34
5	250	23
6	250	16
7	250	13
8	250	11
9	250	12
10	250	12
11	250	12
12	250	12
13	250	11
14	250	11
15	250	12
16	250	10
17	250	10
18	250	9
19	250	9
20	250	9
21	250	18
22	250	0

NOTES:

Wind: 0 mph. Direction: E

Approx 2 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 25-Apr-12 | Start Rain: 7:34 AM | End Rain: 7:54 AM

Sampling interval: 0:03 | End Runoff: 7:57 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: 111F | Descr:. Propex Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

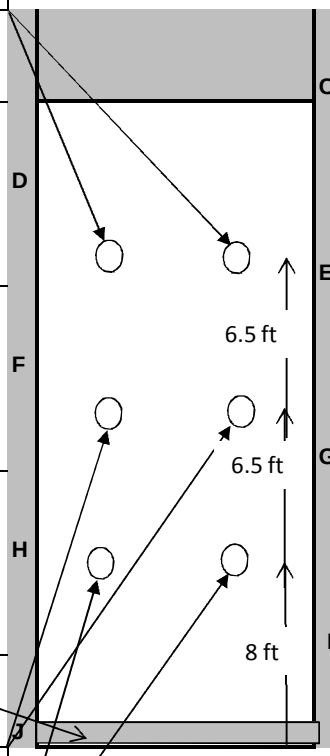
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 33 34 mm

i = 3.90 4.02 in/hr



				C	P = 9 psi	X
x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
						X
				J		x

d = 32 33 mm

i = 3.78 3.90 in/hr

w_{c2} = 21.5%

d = 34 35 mm

i = 4.02 4.13 in/hr

w_{c3} = 21.8%

x x **X** x

P = 9 psi

Temp. 47 deg

Hum. 79 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **3.96** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:37	X	X
7:40	X	X
7:43	X	X
7:46	X	X
7:49	X	X
7:52	X	X
7:55	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	12
2	250	8
3	250	6
4	3785	54
5	3785	41
6	3785	30
7	3785	24
8	3785	22
9	3785	16
10	3785	14
11	3785	14
12	3785	14
13	3785	14
14	3785	13
15	3785	13
16	3785	13
17	3785	13
18	3785	13
19	3785	13
20	3785	13
21	3785	35
23	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 65 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date: 25-Apr-12 | Start Rain: 8:01 AM | End Rain: 8:21 AM

Sampling interval: 0:03 | End Runoff: 8:31 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: 111F | Descr:. Propex Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

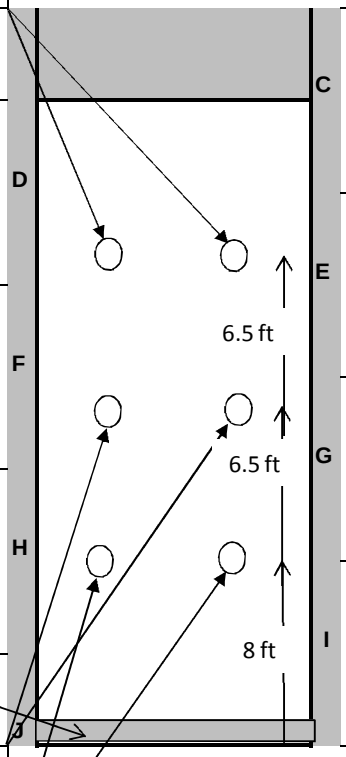
TOP OF SLOPE

(circle "x" for open valves) **Set valves to 16 psi.**

w_{c1} = 21.8%

d = 51 51 mm

i = 6.02 6.02 in/hr



				C	P = 9 psi	X
x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
						X
		J				x

d = 52 52 mm

i = 6.14 6.14 in/hr

w_{c2} = 21.5%

x x **X** x

P = 9 psi Temp. 47 deg

Hum. 76 %

d = 50 50 mm

i = 5.91 5.91 in/hr

w_{c3} = 21.8%

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.02** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:04	X	X
8:07	X	X
8:10	X	X
8:13	X	X
8:16	X	X
8:19	X	X
8:22	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	38
2	3785	13
3	3785	12
4	3785	11
5	3785	10
6	3785	10
7	3785	10
8	3785	10
9	3785	10
10	3785	9
11	3785	9
12	3785	9
13	3785	9
14	3785	9
15	3785	9
16	3785	9
17	3785	9
18	3785	9
19	3785	9
20	3785	9
21	3785	9
30	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 125 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date: 1-May-12 | Start Rain: 6:58 AM | End Rain: 7:18 AM

Sampling interval: 0:03 | End Runoff: 7:20 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: 111F | Descr:. Propex Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

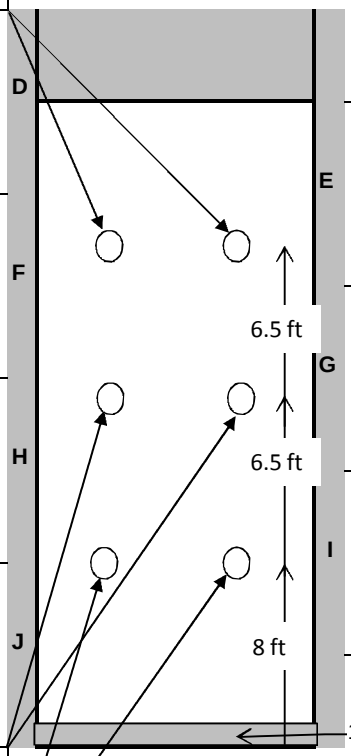
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 18 19 mm

i = 2.13 2.24 in/hr



x x

X P = 9 psi **D** x

x x

x **E** P = 9 psi **X**

x x

X P = 9 psi **F** x

x x

x **G** P = 9 psi x

x **X**

x P = 9 psi **H** x

X x

x **I** P = 9 psi x

x **X**

x P = 9 psi **J** x

X

x

d = 17 18 mm

i = 2.01 2.13 in/hr

w_{c2} = 21.5%

d = 18 20 mm

i = 2.13 2.36 in/hr

w_{c3} = 21.8%

x x **X** x

P = 9 psi

Temp. 67 deg

Hum. 86 %

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.17** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:01	X	X
7:04	X	X
7:07	X	X
7:10	X	X
7:13	X	X
7:16	X	X
7:19	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	43
2	250	43
3	250	37
4	250	35
5	250	33
6	250	33
7	250	31
8	250	31
9	250	30
10	250	30
11	250	30
12	250	26
13	250	24
14	250	20
15	250	18
16	250	17
17	250	15
18	250	10
19	250	8
20	250	7
21	250	12
22	250	0

NOTES: Test on Slope G1

Wind: 0 mph. Direction: N

Approx 5 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date:	1-May-12	Start Rain:	7:26 AM	End Rain:	7:46 AM
		Sampling interval:	0:03	End Runoff:	7:49 AM
		Rain Time (min):	20.00	Test Time (min):	23.00
Product:	111F	Descr:.	Propex Type C Silt Fence		
Lot #:		Posts:	Steel	Spacing:	4-ft

TOP OF SLOPE

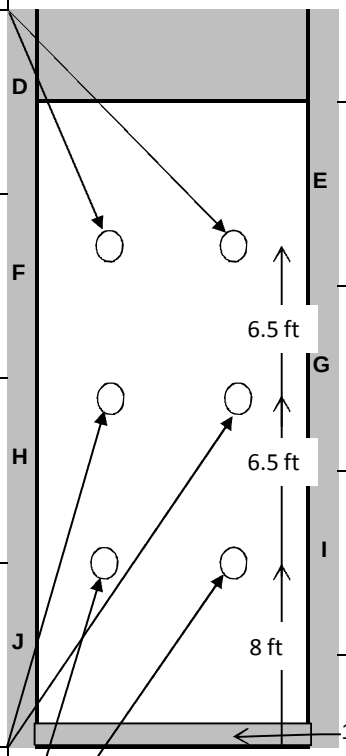
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 34 35 mm

i = 4.02 4.13 in/hr



x								x
X	P =	9	psi	D				x
x								x
x					E	P =	9 psi	X
x								x
X	P =	9	psi	F				x
x								x
x					G	P =	9 psi	x
x								X
x	P =	9	psi	H				x
X								x
x					I	P =	9 psi	x
x								X
x	P =	9	psi	J				x
X								
x								

d = 32 31 mm

i = 3.78 3.66 in/hr

w_{c2} = 21.5%

x x **X** x

P = 9 psi

Temp. 66 deg

Hum. 87 %

d = 36 35 mm

i = 4.25 4.13 in/hr

w_{c3} = 21.8%

Average Depth: 34 mm

Avg Rainfall Intensity: 4.00 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:29	X	X
7:32	X	X
7:35	X	X
7:38	X	X
7:41	X	X
7:44	X	X
7:47	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	10
2	3785	45
3	3785	34
4	3785	22
5	3785	20
6	3785	18
7	3785	18
8	3785	17
9	3785	16
10	3785	16
11	3785	16
12	3785	16
13	3785	15
14	3785	15
15	3785	15
16	3785	15
17	3785	14
18	3785	14
19	3785	14
20	3785	13
21	3785	23
23	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 70 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 1-May-12 | Start Rain: 7:56 AM | End Rain: 8:16 AM

Sampling interval: 0:03 | End Runoff: 8:26 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: 111F | Descr:. Propex Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

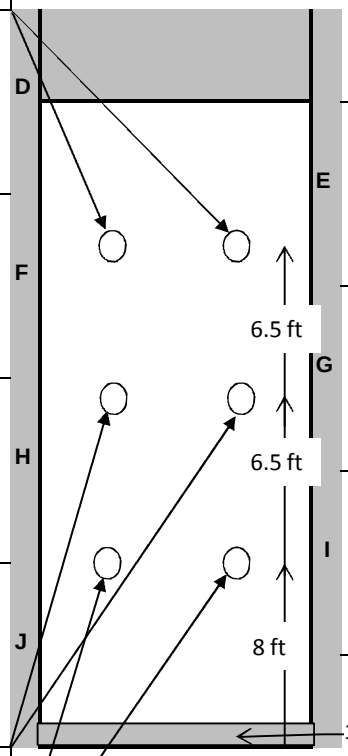
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 51 52 mm

i = 6.02 6.14 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 49 51 mm

i = 5.79 6.02 in/hr

w_{c2} = 21.5%

d = 51 51 mm

i = 6.02 6.02 in/hr

w_{c3} = 21.8%

x x **X** x

P = 9 psi

Temp. 65 deg

Hum. 92 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:59	X	X
8:02	X	X
8:05	X	X
8:08	X	X
8:11	X	X
8:14	X	X
8:17	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	27
2	3785	16
3	3785	12
4	3785	11
5	3785	10
6	3785	10
7	3785	10
8	3785	9
9	3785	9
10	3785	9
11	3785	9
12	3785	9
13	3785	9
14	3785	9
15	3785	9
16	3785	8
17	3785	8
18	3785	8
19	3785	8
20	3785	8
21	3785	18
30	3785	0

NOTES:
Wind: 0-2 mph. Direction: N
Approx 135 gallons collected.

111F Propex Type C Silt Fence

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	168
2	20	125
3	20	155

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	322	2-1	3.00	240	2-1	3.00	303
2-2	6.00	477	2-2	6.00	131	2-2	6.00	479
2-3	9.00	529	2-3	9.00	160	2-3	9.00	388
2-4	12.00	329	2-4	12.00	136	2-4	12.00	1793
2-5	15.00	380	2-5	15.00	128	2-5	15.00	2177
2-6	18.00	393	2-6	18.00	140	2-6	18.00	3296
2-7	21.00	555	2-7	21.00	129	2-7	21.00	2107
avg		**426**	avg		**152**	avg		**1506**
4-1	3.00	4115	4-1	2.00	2471	4-1	2.00	6939
4-2	6.00	2869	4-2	4.00	2896	4-2	4.00	3841
4-3	9.00	2641	4-3	6.00	2864	4-3	6.00	3081
4-4	12.00	2507	4-4	8.00	2660	4-4	8.00	3060
4-5	15.00	2269	4-5	10.00	2692	4-5	10.00	2751
4-6	18.00	2151	4-6	12.00	2473	4-6	12.00	2687
4-7	21.00	1697	4-7	21.00	1345	4-7	21.00	1544
avg		**2607**	avg		**2486**	avg		**3415**
6-1	3.00	2492	6-1	3.00	2605	6-1	3.00	3117
6-2	6.00	2277	6-2	6.00	2360	6-2	6.00	2693
6-3	9.00	1906	6-3	9.00	2368	6-3	9.00	2505
6-4	12.00	1875	6-4	12.00	2123	6-4	12.00	2521
6-5	15.00	1658	6-5	15.00	1924	6-5	15.00	2397
6-6	18.00	1680	6-6	18.00	1767	6-6	18.00	2181
6-7	21.00	1114	6-7	21.00	1037	6-7	21.00	1343
avg		**1857**	avg		**2026**	avg		**2394**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.05	in/hr	avg														
25-Apr-12		2-1	3.00	323.17	166.66	150.57	146.79	3780.00	172.60	0.17	21900.35	3.00	651.09	0.33	21900.35	0.06
		2-2	6.00	331.35	172.20	151.73	151.35	380.00	179.62	0.18	2115.58	6.00	317.97	0.39	2115.58	0.01
		2-3	9.00	324.13	161.57	149.42	149.07	350.00	174.71	0.17	2003.32	9.00	181.70	0.88	2003.32	0.01
		2-4	12.00	347.94	165.56	152.05	151.88	170.00	195.89	0.20	867.83	12.00	166.56	1.04	867.83	0.01
		2-5	15.00	328.36	163.70	149.56	147.75	1810.00	178.80	0.18	10123.04	15.00	136.27	1.19	10123.04	0.10
		2-6	18.00	323.88	167.06	149.38	149.01	370.00	174.50	0.17	2120.34	18.00	121.13	1.40	2120.34	0.02
		2-7	21.00	33.22	165.52	148.98	148.82	160.00	-115.76	-0.12	-1382.17	21.00	363.40	1.24	-1382.17	-0.01
										AVG =	**5392.61**	22.00	0	0.25	-1382.17	0.00
3.98	in/hr	avg									5392.61			**Total Solids Lost:**		**0.20**
27-Apr-12		4-1	3.00	330.28	174.64	152.09	150.60	1490.00	178.19	0.18	8361.86	3.00	166.56	1.14	8361.86	0.08
		4-2	6.00	330.36	174.50	152.72	151.75	970.00	177.64	0.18	5460.48	6.00	34.00	2.60	5460.48	0.12
		4-3	9.00	355.55	184.47	151.27	150.59	680.00	204.28	0.20	3328.76	9.00	14.00	9.76	3328.76	0.27
		4-4	12.00	393.80	182.91	146.87	146.59	280.00	246.93	0.25	1133.92	12.00	14.00	12.56	1133.92	0.12
		4-5	15.00	349.51	185.26	148.14	147.33	810.00	201.37	0.20	4022.45	15.00	12.00	13.86	4022.45	0.47
		4-6	18.00	325.91	177.64	150.11	149.58	530.00	175.80	0.18	3014.79	18.00	12.00	15.00	3014.79	0.38
		4-7	21.00	230.82	165.79	148.26	147.65	610.00	82.56	0.08	7388.57	21.00	21.00	14.42	7388.57	0.89
										AVG =	**4672.98**	23.00	0.00	2.73	7388.57	0.17
5.98	in/hr	avg									4672.98			**Total Solids Lost:**		**2.49**
27-Apr-12		6-1	3.00	312.86	192.48	151.49	150.38	1110.00	161.37	0.16	6878.60	3.00	10.00	13.00	6878.60	0.75
		6-2	6.00	321.26	189.99	148.13	147.45	680.00	173.13	0.17	3927.68	6.00	9.00	18.31	3927.68	0.60
		6-3	9.00	312.98	193.66	150.57	149.93	640.00	162.41	0.16	3940.64	9.00	9.00	20.00	3940.64	0.66
		6-4	12.00	333.90	181.96	148.66	148.06	600.00	185.24	0.19	3239.04	12.00	9.00	20.00	3239.04	0.54
		6-5	15.00	355.06	183.44	150.34	149.17	1170.00	204.72	0.20	5715.12	15.00	9.00	20.00	5715.12	0.95
		6-6	18.00	325.94	189.16	150.31	149.77	540.00	175.63	0.18	3074.65	18.00	9.00	20.00	3074.65	0.51
		6-7	21.00	325.18	179.17	149.66	148.44	1220.00	175.52	0.18	6950.77	21.00	16.00	18.13	6950.77	1.05
										AVG =	**4818.07**	30.00	0.00	3.33	6950.77	0.19
											4818.07			**Total Solids Lost:**		**5.26**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.03	in/hr	avg														
25-Apr-12		2-1	3.00	324.36	147.40	147.40	147.40	0.00	176.96	0.18	0.00	3.00	666.23	0.35	0.00	0.00
		2-2	6.00	342.27	148.78	148.78	148.78	0.00	193.49	0.19	0.00	6.00	242.27	0.44	0.00	0.00
		2-3	9.00	353.56	149.87	149.87	149.87	0.00	203.69	0.20	0.00	9.00	181.70	0.95	0.00	0.00
		2-4	12.00	323.26	147.71	147.71	147.71	0.00	175.55	0.18	0.00	12.00	181.70	0.99	0.00	0.00
		2-5	15.00	332.62	149.72	149.72	149.72	0.00	182.90	0.18	0.00	15.00	181.70	1.05	0.00	0.00
		2-6	18.00	331.82	148.14	148.14	148.14	0.00	183.68	0.18	0.00	18.00	136.27	1.17	0.00	0.00
		2-7	21.00	384.12	150.39	150.39	150.39	0.00	233.73	0.23	0.00	21.00	272.55	1.17	0.00	0.00
										AVG =	**0.00**	22.00	0.00	0.22	0.00	0.00
3.96	in/hr	avg									0.00			**Total Solids Lost:**		**0.00**
25-Apr-12		4-1	3.00	344.27	156.45	150.79	150.51	280.00	193.48	0.19	1447.18	3.00	90.85	1.62	1447.18	0.02
		4-2	6.00	321.21	156.91	149.67	149.21	460.00	171.54	0.17	2681.59	6.00	30.00	3.78	2681.59	0.08
		4-3	9.00	352.72	155.53	149.27	148.62	650.00	203.45	0.20	3194.89	9.00	16.00	7.99	3194.89	0.21
		4-4	12.00	299.76	157.64	149.61	149.05	560.00	150.15	0.15	3729.60	12.00	14.00	12.57	3729.60	0.39
		4-5	15.00	310.93	154.33	147.65	147.14	510.00	163.28	0.16	3123.47	15.00	13.00	13.34	3123.47	0.35
		4-6	18.00	317.26	162.42	151.43	150.82	610.00	165.83	0.17	3678.47	18.00	13.00	13.84	3678.47	0.42
		4-7	21.00	227.58	158.35	149.09	148.64	450.00	78.49	0.08	5733.21	21.00	35.00	11.73	5733.21	0.56
										AVG =	**3369.77**	23.00	0.00	2.31	5733.21	0.11
6.02	in/hr	avg									3369.77			**Total Solids Lost:**		**2.15**
25-Apr-12		6-1	3.00	297.63	157.52	149.69	148.95	740.00	147.94	0.15	5002.03	3.00	12.00	10.31	5002.03	0.43
		6-2	6.00	317.60	159.13	150.85	150.27	580.00	166.75	0.17	3478.26	6.00	10.00	16.93	3478.26	0.49
		6-3	9.00	349.56	160.28	149.88	149.22	660.00	199.68	0.20	3305.29	9.00	10.00	18.00	3305.29	0.50
		6-4	12.00	338.45	158.02	147.99	147.47	520.00	190.46	0.19	2730.23	12.00	9.00	19.65	2730.23	0.45
		6-5	15.00	352.59	152.47	148.28	147.50	780.00	204.31	0.20	3817.73	15.00	9.00	20.00	3817.73	0.64
		6-6	18.00	318.79	155.30	148.95	147.63	1320.00	169.84	0.17	7772.02	18.00	9.00	20.00	7772.02	1.30
		6-7	21.00	333.79	155.31	151.39	150.79	600.00	182.40	0.18	3289.47	21.00	9.00	20.00	3289.47	0.55
										AVG =	**4199.29**	30.00	0.00	3.33	3289.47	0.09
											4199.29			**Total Solids Lost:**		**4.44**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.17	in/hr	avg														
1-May-12		2-1	3.00	331.81	155.20	149.44	149.40	40.00	182.37	0.18	219.33	3.00	560.24	0.38	219.33	0.00
		2-2	6.00	325.36	155.98	147.80	147.70	100.00	177.56	0.18	563.19	6.00	499.67	0.35	563.19	0.00
		2-3	9.00	251.06	160.33	149.22	149.17	50.00	101.84	0.10	490.97	9.00	454.25	0.38	490.97	0.00
		2-4	12.00	331.35	171.75	148.08	147.71	370.00	183.27	0.18	2018.88	12.00	393.68	0.41	2018.88	0.01
		2-5	15.00	325.87	176.88	150.09	149.71	380.00	175.78	0.18	2161.79	15.00	272.55	0.55	2161.79	0.01
		2-6	18.00	351.70	163.20	148.88	148.14	740.00	202.82	0.20	3648.56	18.00	151.42	0.79	3648.56	0.02
		2-7	21.00	360.58	171.04	150.85	150.39	460.00	209.73	0.21	2193.30	21.00	181.70	1.39	2193.30	0.03
										AVG =	**1613.72**	22.00	0.00	0.28	2193.30	0.01
4.00	in/hr	avg									1613.72			**Total Solids Lost:**		**0.08**
1-May-12		4-1	3.00	329.94	164.24	151.70	150.03	1670.00	178.24	0.18	9369.39	3.00	34.00	2.92	9369.39	0.01
		4-2	6.00	341.31	159.96	150.19	149.21	980.00	191.12	0.19	5127.67	6.00	18.00	8.16	5127.67	0.35
		4-3	9.00	349.21	160.22	149.32	148.62	700.00	199.89	0.20	3501.93	9.00	16.00	10.40	3501.93	0.30
		4-4	12.00	299.37	155.40	149.69	149.15	540.00	149.68	0.15	3607.70	12.00	16.00	11.25	3607.70	0.34
		4-5	15.00	351.35	155.62	147.72	147.14	580.00	203.63	0.20	2848.30	15.00	15.00	11.87	2848.30	0.28
		4-6	18.00	348.25	158.62	150.87	150.32	550.00	197.38	0.20	2786.50	18.00	14.00	12.42	2786.50	0.29
		4-7	21.00	342.37	154.54	149.01	148.64	370.00	193.36	0.19	1913.53	21.00	23.00	12.06	1913.53	0.19
										AVG =	**4165.00**	23.00	0.00	2.31	1913.53	0.04
6.00	in/hr	avg									4165.00			**Total Solids Lost:**		**1.80**
1-May-12		6-1	3.00	316.48	158.82	149.07	148.95	120.00	167.41	0.17	716.80	3.00	12.00	11.52	716.80	0.07
		6-2	6.00	344.73	159.01	150.80	150.29	510.00	193.93	0.19	2629.81	6.00	10.00	16.93	2629.81	0.37
		6-3	9.00	313.42	154.86	148.27	147.42	850.00	165.15	0.17	5146.84	9.00	9.00	18.98	5146.84	0.82
		6-4	12.00	322.57	152.65	148.16	147.47	690.00	174.41	0.17	3956.20	12.00	9.00	20.00	3956.20	0.66
		6-5	15.00	335.96	159.71	148.62	147.50	1120.00	187.34	0.19	5978.43	15.00	9.00	20.00	5978.43	1.00
		6-6	18.00	344.38	160.61	148.27	147.05	1220.00	196.11	0.20	6221.00	18.00	8.00	22.06	6221.00	1.14
		6-7	21.00	336.67	158.85	151.79	150.70	1090.00	184.88	0.18	5895.72	21.00	18.00	19.61	5895.72	0.96
										AVG =	**4363.54**	30.00	0.00	3.75	5895.72	0.18
											4363.54			**Total Solids Lost:**		**5.21**

25-Apr-12
Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.05 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	757	0.16	0.16	0.16	
2-2	2.00	666	0.08	0.08	0.24	
2-3	3.00	651	0.09	0.09	0.33	
2-4	4.00	591	0.10	0.10	0.43	
2-5	5.00	394	0.12	0.12	0.55	
2-6	6.00	318	0.17	0.17	0.72	
2-7	7.00	197	0.23	0.23	0.95	
2-8	8.00	182	0.32	0.32	1.27	
2-9	9.00	182	0.33	0.33	1.60	
2-10	10.00	182	0.33	0.33	1.93	
2-11	11.00	167	0.34	0.34	2.28	
2-12	12.00	167	0.36	0.36	2.64	
2-13	13.00	151	0.38	0.38	3.01	
2-14	14.00	151	0.40	0.40	3.41	
2-15	15.00	136	0.42	0.42	3.83	
2-16	16.00	136	0.44	0.44	4.27	
2-17	17.00	121	0.47	0.47	4.73	
2-18	18.00	121	0.50	0.50	5.23	
2-19	19.00	121	0.50	0.50	5.72	
2-20	20.00	121	0.50	0.50	6.22	
2-21	21.00	363	0.25	0.25	6.47	
2-end	22.00	0	0.25	0.25	6.71	
					6.71	**Total Collected Runoff (approx)**
3.98 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	227	0.53	0.53	0.53	
4-2	2	197	0.28	0.28	0.81	
4-3	3	167	0.33	0.33	1.14	
4-4	4	136	0.40	0.40	1.54	
4-5	5	44	0.67	0.67	2.20	
4-6	6	34	1.54	1.54	3.74	
4-7	7	22	2.14	2.14	5.88	
4-8	8	14	3.33	3.33	9.22	
4-9	9	14	4.29	4.29	13.50	
4-10	10	15	4.14	4.14	17.64	
4-11	11	14	4.14	4.14	21.78	
4-12	12	14	4.29	4.29	26.06	
4-13	13	13	4.44	4.44	30.51	
4-14	14	13	4.61	4.61	35.12	
4-15	15	12	4.80	4.80	39.92	
4-16	16	12	5.00	5.00	44.92	
4-17	17	12	5.00	5.00	49.92	
4-18	18	12	5.00	5.00	54.92	
4-19	19	11	5.22	5.22	60.14	
4-20	20	11	5.45	5.45	65.59	
4-21	21	21	3.75	3.75	69.34	
4-end	23.00	0	2.73	2.73	72.07	
					72.07	**Total Collected Runoff (approx)**
5.98 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	30	4.00	4.00	4.00	
6-2	2	10	3.00	3.00	7.00	
6-3	3	10	6.00	6.00	13.00	
6-4	4	10	6.00	6.00	19.00	
6-5	5	10	6.00	6.00	25.00	
6-6	6	9	6.32	6.32	31.31	
6-7	7	9	6.67	6.67	37.98	
6-8	8	9	6.67	6.67	44.64	
6-9	9	9	6.67	6.67	51.31	
6-10	10	9	6.67	6.67	57.98	
6-11	11	9	6.67	6.67	64.64	
6-12	12	9	6.67	6.67	71.31	
6-13	13	9	6.67	6.67	77.97	
6-14	14	9	6.67	6.67	84.64	
6-15	15	9	6.67	6.67	91.31	
6-16	16	9	6.67	6.67	97.97	
6-17	17	9	6.67	6.67	104.64	
6-18	18	9	6.67	6.67	111.30	
6-19	19	9	6.67	6.67	117.97	
6-20	20	9	6.67	6.67	124.64	
6-21	21	16	4.80	4.80	129.44	
6-end	30.00	0	3.33	3.33	132.77	
					132.77	**Total Collected Runoff (approx)**

25-Apr-12
Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.03 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	681	0.18	0.18	0.18	
2-2	2.00	681	0.09	0.09	0.26	
2-3	3.00	666	0.09	0.09	0.35	
2-4	4.00	515	0.10	0.10	0.45	
2-5	5.00	348	0.14	0.14	0.59	
2-6	6.00	242	0.20	0.20	0.80	
2-7	7.00	197	0.27	0.27	1.07	
2-8	8.00	167	0.33	0.33	1.40	
2-9	9.00	182	0.34	0.34	1.75	
2-10	10.00	182	0.33	0.33	2.08	
2-11	11.00	182	0.33	0.33	2.41	
2-12	12.00	182	0.33	0.33	2.74	
2-13	13.00	167	0.34	0.34	3.08	
2-14	14.00	167	0.36	0.36	3.44	
2-15	15.00	182	0.34	0.34	3.79	
2-16	16.00	151	0.36	0.36	4.15	
2-17	17.00	151	0.40	0.40	4.54	
2-18	18.00	136	0.42	0.42	4.96	
2-19	19.00	136	0.44	0.44	5.40	
2-20	20.00	136	0.44	0.44	5.84	
2-21	21.00	273	0.29	0.29	6.13	
2-end	22.00	0	0.22	0.22	6.35	
					6.35	**Total Collected Runoff (approx)**
3.96 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	182	0.66	0.66	0.66	
4-2	2	121	0.40	0.40	1.06	
4-3	3	91	0.57	0.57	1.62	
4-4	4	54	0.83	0.83	2.45	
4-5	5	41	1.26	1.26	3.71	
4-6	6	30	1.69	1.69	5.40	
4-7	7	24	2.22	2.22	7.63	
4-8	8	22	2.61	2.61	10.23	
4-9	9	16	3.16	3.16	13.39	
4-10	10	14	4.00	4.00	17.39	
4-11	11	14	4.29	4.29	21.68	
4-12	12	14	4.29	4.29	25.96	
4-13	13	14	4.29	4.29	30.25	
4-14	14	13	4.44	4.44	34.69	
4-15	15	13	4.61	4.61	39.31	
4-16	16	13	4.61	4.61	43.92	
4-17	17	13	4.61	4.61	48.54	
4-18	18	13	4.61	4.61	53.15	
4-19	19	13	4.61	4.61	57.77	
4-20	20	13	4.61	4.61	62.38	
4-21	21	35	2.50	2.50	64.88	
4-end	23	0	2.31	2.31	67.19	
					67.19	**Total Collected Runoff (approx)**
6.02 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	38	3.16	3.16	3.16	
6-2	2	13	2.35	2.35	5.51	
6-3	3	12	4.80	4.80	10.31	
6-4	4	11	5.22	5.22	15.53	
6-5	5	10	5.71	5.71	21.24	
6-6	6	10	6.00	6.00	27.24	
6-7	7	10	6.00	6.00	33.24	
6-8	8	10	6.00	6.00	39.24	
6-9	9	10	6.00	6.00	45.24	
6-10	10	9	6.32	6.32	51.55	
6-11	11	9	6.67	6.67	58.22	
6-12	12	9	6.67	6.67	64.88	
6-13	13	9	6.67	6.67	71.55	
6-14	14	9	6.67	6.67	78.22	
6-15	15	9	6.67	6.67	84.88	
6-16	16	9	6.67	6.67	91.55	
6-17	17	9	6.67	6.67	98.21	
6-18	18	9	6.67	6.67	104.88	
6-19	19	9	6.67	6.67	111.55	
6-20	20	9	6.67	6.67	118.21	
6-21	21	9	6.67	6.67	124.88	
6-end	30	0	3.33	3.33	128.21	
					128.21	**Total Collected Runoff (approx)**

1-May-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.17 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	651	0.18	0.18	0.18	
2-2	2.00	651	0.09	0.09	0.28	
2-3	3.00	560	0.10	0.10	0.38	
2-4	4.00	530	0.11	0.11	0.49	
2-5	5.00	500	0.12	0.12	0.60	
2-6	6.00	500	0.12	0.12	0.72	
2-7	7.00	469	0.12	0.12	0.85	
2-8	8.00	469	0.13	0.13	0.97	
2-9	9.00	454	0.13	0.13	1.10	
2-10	10.00	454	0.13	0.13	1.24	
2-11	11.00	454	0.13	0.13	1.37	
2-12	12.00	394	0.14	0.14	1.51	
2-13	13.00	363	0.16	0.16	1.67	
2-14	14.00	303	0.18	0.18	1.85	
2-15	15.00	273	0.21	0.21	2.06	
2-16	16.00	257	0.23	0.23	2.28	
2-17	17.00	227	0.25	0.25	2.53	
2-18	18.00	151	0.32	0.32	2.85	
2-19	19.00	121	0.44	0.44	3.29	
2-20	20.00	106	0.53	0.53	3.82	
2-21	21.00	182	0.42	0.42	4.23	
2-end	22.00	0	0.28	0.28	4.52	
					4.52	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	151	0.79	0.79	0.79	
4-2	2	45	0.61	0.61	1.40	
4-3	3	34	1.52	1.52	2.92	
4-4	4	22	2.14	2.14	5.06	
4-5	5	20	2.86	2.86	7.92	
4-6	6	18	3.16	3.16	11.08	
4-7	7	18	3.33	3.33	14.41	
4-8	8	17	3.43	3.43	17.84	
4-9	9	16	3.64	3.64	21.48	
4-10	10	16	3.75	3.75	25.23	
4-11	11	16	3.75	3.75	28.98	
4-12	12	16	3.75	3.75	32.73	
4-13	13	15	3.87	3.87	36.60	
4-14	14	15	4.00	4.00	40.60	
4-15	15	15	4.00	4.00	44.59	
4-16	16	15	4.00	4.00	48.59	
4-17	17	14	4.14	4.14	52.73	
4-18	18	14	4.29	4.29	57.02	
4-19	19	14	4.29	4.29	61.30	
4-20	20	13	4.44	4.44	65.75	
4-21	21	23	3.33	3.33	69.08	
4-end	23	0	2.31	2.31	71.39	
					71.39	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	27	4.44	4.44	4.44	
6-2	2	16	2.79	2.79	7.23	
6-3	3	12	4.29	4.29	11.52	
6-4	4	11	5.22	5.22	16.74	
6-5	5	10	5.71	5.71	22.45	
6-6	6	10	6.00	6.00	28.45	
6-7	7	10	6.00	6.00	34.45	
6-8	8	9	6.32	6.32	40.76	
6-9	9	9	6.67	6.67	47.43	
6-10	10	9	6.67	6.67	54.10	
6-11	11	9	6.67	6.67	60.76	
6-12	12	9	6.67	6.67	67.43	
6-13	13	9	6.67	6.67	74.09	
6-14	14	9	6.67	6.67	80.76	
6-15	15	9	6.67	6.67	87.43	
6-16	16	8	7.06	7.06	94.48	
6-17	17	8	7.50	7.50	101.98	
6-18	18	8	7.50	7.50	109.48	
6-19	19	8	7.50	7.50	116.98	
6-20	20	8	7.50	7.50	124.48	
6-21	21	18	4.61	4.61	129.10	
6-end	30	0	3.75	3.75	132.84	
					132.84	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	25-Apr-12	25-Apr-12	1-May-12
Avg Moisture Content:	**21.70%**	**20.64%**	**21.37%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	239.06	268.91	246.85
Wt. Of cup + dry soil, g	235.13	259.92	241.61
Wt. Of cup, g	217.08	216.6	217.11
Wt. Of dry soil, g	18.05	43.32	24.5
Wt. Of water, g	3.93	8.99	5.24
Water Content, w%	21.8%	20.8%	21.4%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	248.46	265.17	241.97
Wt. Of cup + dry soil, g	242.87	256.89	237.55
Wt. Of cup, g	216.93	216.72	216.84
Wt. Of dry soil, g	25.94	40.17	20.71
Wt. Of water, g	5.59	8.28	4.42
Water Content, w%	21.5%	20.6%	21.3%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	260.36	280.82	245.78
Wt. Of cup + dry soil, g	252.53	269.95	240.64
Wt. Of cup, g	216.59	217.1	216.61
Wt. Of dry soil, g	35.94	52.85	24.03
Wt. Of water, g	7.83	10.87	5.14
Water Content, w%	21.8%	20.6%	21.4%

Soil Loss Data

Slope No.	1	2	3
Test Date:	25-Apr-12	25-Apr-12	1-May-12
Total Soil Loss	**7.25**	**6.40**	**7.52**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		45.2	9.1	31.8
Sub-Sample	Wt. Of cup + wet soil, g	45.2	9.1	31.8
	Wt. Of cup + dry soil, g	45.2	9.1	31.8
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	45.2	9.1	31.8
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.100	0.020	0.070

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		989.7	908.0	930.7
Sub-Sample	Wt. Of cup + wet soil, g	989.7	908.0	930.7
	Wt. Of cup + dry soil, g	989.7	908.0	930.7
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	989.7	908	930.7
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		2.180	2.000	2.050

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		2256.4	1988.5	2451.6
Sub-Sample	Wt. Of cup + wet soil, g	2256.4	1988.5	2451.6
	Wt. Of cup + dry soil, g	2256.4	1988.5	2451.6
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	2256.4	1988.5	2451.6
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		4.970	4.380	5.400

TYPICAL TESTING PICTURES



Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date:	7-May-12	Start Rain:	7:04 AM	End Rain:	7:24 AM
		Sampling interval:	0:03	End Runoff:	7:26 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	Beltech 1935	Descr:.	Belton Type A Silt Fence		
Lot #:		Posts:	Steel	Spacing:	6-ft

TOP OF SLOPE

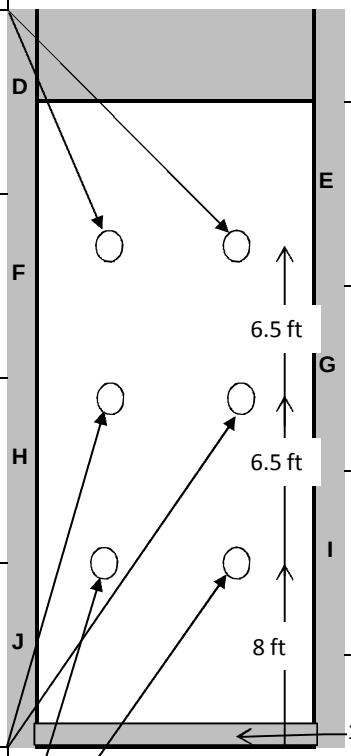
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 19 22 mm

i = 2.24 2.60 in/hr



x								x
X	P =	9	psi	D				x
x								x
x					E	P =	9 psi	X
x								x
X	P =	9	psi	F				x
x								x
x					G	P =	9 psi	x
x								X
x	P =	9	psi	H				x
X								x
x					I	P =	9 psi	x
x								X
x	P =	9	psi	J				x
X								
x								

d = 17 18 mm

i = 2.01 2.13 in/hr

w_{c2} = 22.7%

d = 18 19 mm

i = 2.13 2.24 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 64 deg

Hum. 92 %

Average Depth: 19 mm

Avg Rainfall Intensity: 2.22 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:07	X	X
7:10	X	X
7:13	X	X
7:16	X	X
7:19	X	X
7:22	X	X
7:25	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	38
2	250	35
3	250	34
4	250	35
5	250	36
6	250	35
7	250	35
8	250	41
9	250	35
10	250	34
11	250	41
12	250	43
13	250	39
14	250	38
15	250	25
16	250	19
17	250	11
18	250	11
19	250	9
20	250	9
21	250	10
22	250	0

NOTES:
Wind: 0-2 mph. Direction: NE
Approx 4 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date:	7-May-12	Start Rain:	7:33 AM	End Rain:	7:53 AM
		Sampling interval:	0:03	End Runoff:	7:56 AM
		Rain Time (min):	20.00	Test Time (min):	23.00
Product:	Beltech 1935	Descr:.	Belton Type A Silt Fence		
Lot #:		Posts:	Steel	Spacing:	6-ft

TOP OF SLOPE

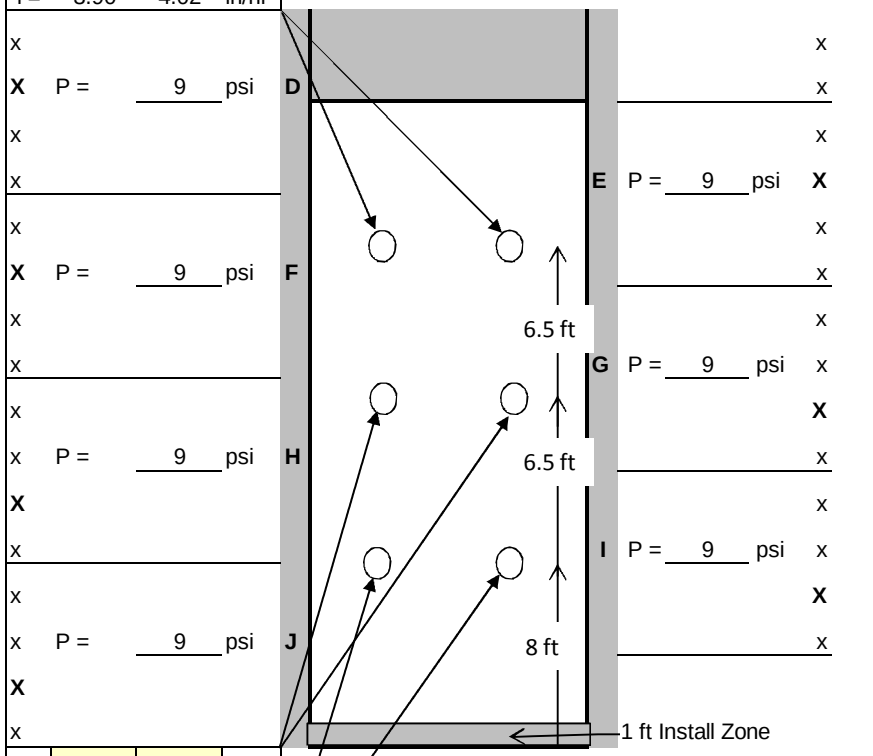
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 33 34 mm

i = 3.90 4.02 in/hr



d = 33 35 mm

i = 3.90 4.13 in/hr

w_{c2} = 22.7%

d = 33 35 mm

i = 3.90 4.13 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 66 deg

Hum. 89 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:36	X	X
7:39	X	X
7:42	X	X
7:45	X	X
7:48	X	X
7:51	X	X
7:54	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	12
2	3785	50
3	3785	41
4	3785	31
5	3785	31
6	3785	31
7	3785	30
8	3785	28
9	3785	22
10	3785	22
11	3785	21
12	3785	21
13	3785	20
14	3785	20
15	3785	18
16	3785	17
17	3785	15
18	3785	15
19	3785	15
20	3785	14
21	3785	20
23	3785	0

NOTES:
Wind: 0-3 mph. Direction: E
Approx 60 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date:	7-May-12	Start Rain:	8:03 AM	End Rain:	8:23 AM
		Sampling interval:	0:03	End Runoff:	8:33 AM
		Rain Time (min):	20.00	Test Time (min):	30.00
Product:	Beltech 1935	Descr:.	Belton Type A Silt Fence		
Lot #:		Posts:	Steel	Spacing:	6-ft

TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

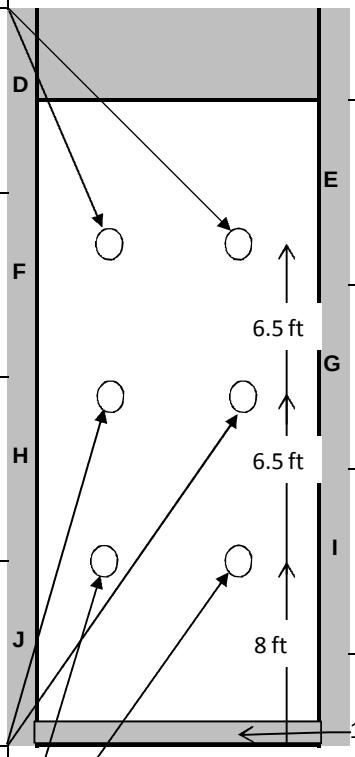
d =	51	52	mm
i =	6.02	6.14	in/hr

x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
x P = 9 psi **J**
X
x



x
x
x
E P = 9 psi **X**
x
x
x
G P = 9 psi x
X
x
x
I P = 9 psi x
X
x

x x **X** x

P = 9 psi

Temp. 66 deg

Hum. 88 %

d =	50	50	mm
i =	5.91	5.91	in/hr

w_{c2} = 22.7%

d =	52	54	mm
i =	6.14	6.38	in/hr

w_{c3} = 22.8%

Average Depth: **52** **mm**

Avg Rainfall Intensity: **6.08** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:06	X	X
8:09	X	X
8:12	X	X
8:15	X	X
8:18	X	X
8:21	X	X
8:24	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	37
2	3785	16
3	3785	15
4	3785	15
5	3785	15
6	3785	14
7	3785	14
8	3785	14
9	3785	14
10	3785	13
11	3785	13
12	3785	13
13	3785	12
14	3785	12
15	3785	11
16	3785	11
17	3785	11
18	3785	11
19	3785	11
20	3785	11
21	3785	21
30	3785	0

NOTES:
Wind: 0-3 mph. Direction: E
Approx 100 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date:	4-May-12	Start Rain:	7:07 AM	End Rain:	7:27 AM
		Sampling interval:	0:03	End Runoff:	7:29 AM
		Rain Time (min):	20.00	'est Time (min):	22.00
Product:	Beltech 1935	Descr:.	Belton Type A Silt Fence		
Lot #:		Posts:	Steel	Spacing:	6-ft

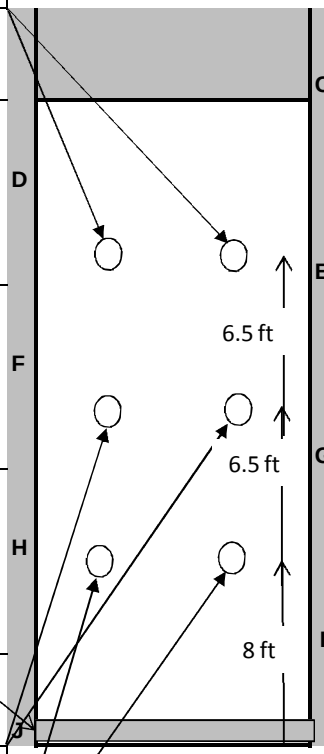
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d =	16	15	mm
i =	1.89	1.77	in/hr



					x
			C	P = 9 psi	X
x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
1 ft Install Zone					X
					x

d =	18	20	mm
i =	2.13	2.36	in/hr

w_{c2} = 22.7%

d =	16	18	mm
i =	1.89	2.13	in/hr

w_{c3} = 22.8%

x x X x

P = 9 psi

Temp. 68 deg

Hum. 84 %

Average Depth: **17** **mm**

Avg Rainfall Intensity: **2.03** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:10	X	X
7:13	X	X
7:16	X	X
7:19	X	X
7:22	X	X
7:25	X	X
7:28	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	25	60
2	25	60
3	25	60
4	25	60
5	250	49
6	250	48
7	250	43
8	250	43
9	250	41
10	250	41
11	250	41
12	250	40
13	250	40
14	250	38
15	250	38
16	250	37
17	250	36
18	250	35
19	250	35
20	250	34
21	250	52
22	250	0

NOTES:
Wind: 0 mph. Direction: N
Approx 1 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date:	4-May-12	Start Rain:	7:38 AM	End Rain:	7:58 AM
		Sampling interval:	0:03	End Runoff:	8:03 AM
		Rain Time (min):	20.00	Test Time (min):	25.00
Product:	Beltech 1935	Descr:.	Belton Type A Silt Fence		
Lot #:		Posts:	Steel	Spacing:	6-ft

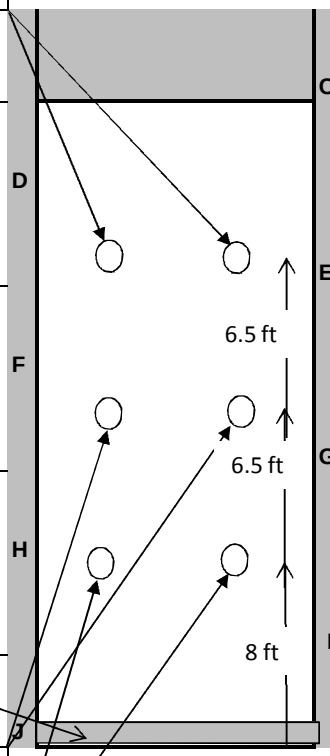
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d =	40	42	mm
i =	4.72	4.96	in/hr



x					x
			C	P = 9 psi	X
x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
					X
		J			x

d =	30	31	mm
i =	3.54	3.66	in/hr

w_{c2} = 22.7%

d =	31	30	mm
i =	3.66	3.54	in/hr

w_{c3} = 22.8%

x x X x

P = 9 psi

Temp. 68 deg

Hum. 82 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.02** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:41	X	X
7:44	X	X
7:47	X	X
7:50	X	X
7:53	X	X
7:56	X	X
7:59	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	43
2	250	14
3	250	10
4	250	6
5	3785	34
6	3785	33
7	3785	30
8	3785	27
9	3785	22
10	3785	19
11	3785	18
12	3785	17
13	3785	16
14	3785	16
15	3785	15
16	3785	14
17	3785	12
18	3785	12
19	3785	12
20	3785	12
21	3785	28
25	3785	0

NOTES:
Wind: 0 mph. Direction: N
Approx 60 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date: 4-May-12 | Start Rain: 8:19 AM | End Rain: 8:39 AM

Sampling interval: 0:03 | End Runoff: 8:49 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: Beltech 1935 | Descr:. Belton Type A Silt Fence

Lot #: | Posts: Steel | Spacing: 6-ft

TOP OF SLOPE

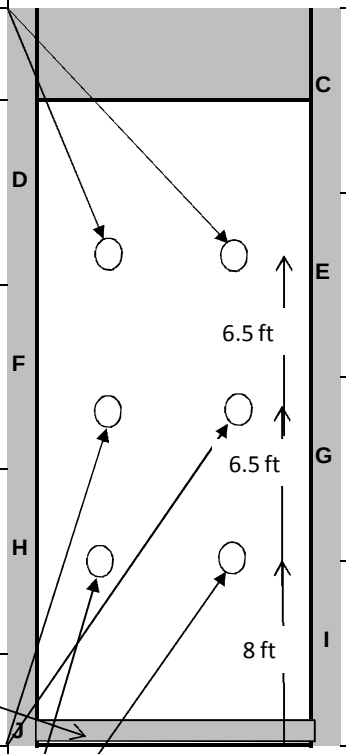
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 54 55 mm

i = 6.38 6.50 in/hr



x				C	P = 9 psi	X
X	P = 9 psi	D				x
x				E	P = 9 psi	X
X	P = 9 psi	F				x
x				G	P = 9 psi	x
x	P = 9 psi	H				X
X				I	P = 9 psi	x
x		J				X

d = 50 50 mm

i = 5.91 5.91 in/hr

w_{c2} = 22.7%

d = 48 49 mm

i = 5.67 5.79 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 68 deg

Hum. 87 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.02** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:22	X	X
8:25	X	X
8:28	X	X
8:31	X	X
8:34	X	X
8:37	X	X
8:40	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	50
2	3785	32
3	3785	23
4	3785	17
5	3785	16
6	3785	14
7	3785	14
8	3785	14
9	3785	13
10	3785	13
11	3785	13
12	3785	12
13	3785	12
14	3785	12
15	3785	11
16	3785	11
17	3785	11
18	3785	11
19	3785	10
20	3785	10
21	3785	22
30	3785	0

NOTES:

Wind: 1 mph. Direction: S

Approx 95 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date: 9-May-12 | Start Rain: 7:24 AM | End Rain: 7:44 AM

Sampling interval: 0:03 | End Runoff: 7:47 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: Beltech 1935 | Descr:. Belton Type A Silt Fence

Lot #: | Posts: Steel | Spacing: 6-ft

TOP OF SLOPE

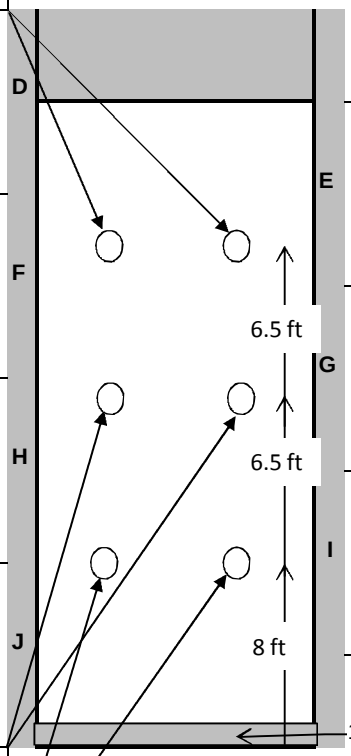
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 19 20 mm

i = 2.24 2.36 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 20 20 mm

i = 2.36 2.36 in/hr

w_{c2} = 22.7%

d = 18 20 mm

i = 2.13 2.36 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 66 deg

Hum. 93 %

Average Depth: **20** **mm**

Avg Rainfall Intensity: **2.30** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:27	X	X
7:30	X	X
7:33	X	X
7:36	X	X
7:39	X	X
7:42	X	X
7:45	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	36
2	250	35
3	250	32
4	250	32
5	250	34
6	250	29
7	250	25
8	250	22
9	250	20
10	250	18
11	250	14
12	250	12
13	250	10
14	250	10
15	250	8
16	250	7
17	250	7
18	250	6
19	250	6
20	250	5
21	250	10
23	250	0

NOTES: Test on Slope G1

Wind: 0 mph. Direction: N

Approx 8 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date:	9-May-12	Start Rain:	7:52 AM	End Rain:	8:12 AM
		Sampling interval:	0:03	End Runoff:	8:15 AM
		Rain Time (min):	20.00	Test Time (min):	23.00
Product:	Beltech 1935	Descr:.	Belton Type A Silt Fence		
Lot #:		Posts:	Steel	Spacing:	6-ft

TOP OF SLOPE

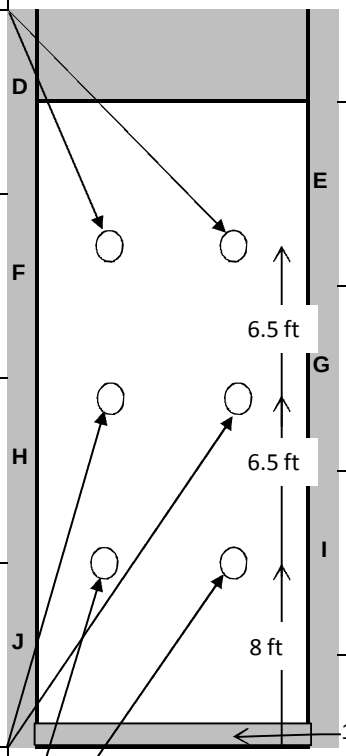
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 33 34 mm

i = 3.90 4.02 in/hr



x							x
X	P =	9	psi	D			x
x							x
x					E	P = 9 psi	X
x							x
X	P =	9	psi	F			x
x							x
x					G	P = 9 psi	x
x							X
x	P =	9	psi	H			x
X							x
x					I	P = 9 psi	x
x							X
x	P =	9	psi	J			x
X							
x							

d = 32 33 mm

i = 3.78 3.90 in/hr

w_{c2} = 22.7%

d = 34 35 mm

i = 4.02 4.13 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 68 deg

Hum. 91 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **3.96** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:55	X	X
7:58	X	X
8:01	X	X
8:04	X	X
8:07	X	X
8:10	X	X
8:13	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	10
2	250	9
3	3785	45
4	3785	40
5	3785	30
6	3785	28
7	3785	23
8	3785	21
9	3785	20
10	3785	18
11	3785	16
12	3785	16
13	3785	16
14	3785	16
15	3785	16
16	3785	15
17	3785	14
18	3785	14
19	3785	14
20	3785	14
21	3785	26
23	3785	0

NOTES:

Wind: 0 mph. Direction: SSW

Approx 75 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 9-May-12 | Start Rain: 8:50 AM | End Rain: 9:10 AM

Sampling interval: 0:03 | End Runoff: 9:20 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: Beltech 1935 | Descr:. Belton Type A Silt Fence

Lot #: | Posts: Steel | Spacing: 6-ft

TOP OF SLOPE

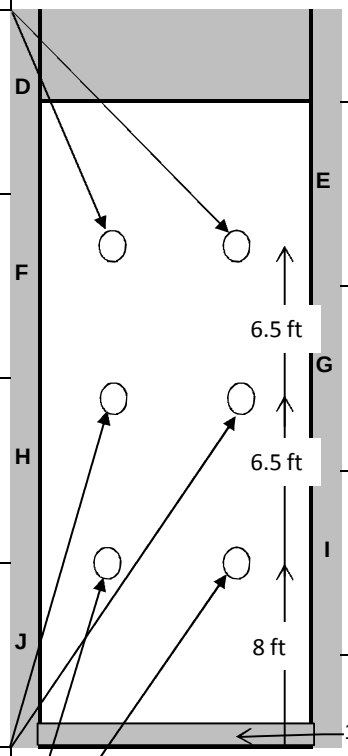
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 52 53 mm

i = 6.14 6.26 in/hr



x						x	
X	P =	9	psi	D		x	
x						x	
x					E	P = 9 psi	X
x						x	
X	P =	9	psi	F		x	
x						x	
x					G	P = 9 psi	x
x						X	
x	P =	9	psi	H		x	
X						x	
x					I	P = 9 psi	x
x						X	
x	P =	9	psi	J		x	
X							
x							

d = 52 54 mm

i = 6.14 6.38 in/hr

w_{c2} = 22.7%

x x **X** x

P = 9 psi

Temp. 67 deg

Hum. 93 %

d = 50 51 mm

i = 5.91 6.02 in/hr

w_{c3} = 22.8%

Average Depth: 52 mm

Avg Rainfall Intensity: 6.14 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:53	X	X
8:56	X	X
8:59	X	X
9:02	X	X
9:05	X	X
9:08	X	X
9:11	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	46
2	3785	38
3	3785	30
4	3785	31
5	3785	22
6	3785	19
7	3785	18
8	3785	16
9	3785	15
10	3785	15
11	3785	14
12	3785	15
13	3785	15
14	3785	12
15	3785	11
16	3785	10
17	3785	9
18	3785	8
19	3785	7
20	3785	7
21	3785	7
30	3785	0

NOTES:

Wind: 0 mph. Direction: S

Approx 100 gallons collected.

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	113
2	20	259
3	20	270

Beltech 1935 Belton Type A Silt Fence

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	793	2-1	3.00		2-1	3.00	205
2-2	6.00	621	2-2	6.00	578	2-2	6.00	846
2-3	9.00	578	2-3	9.00	377	2-3	9.00	1129
2-4	12.00	493	2-4	12.00	333	2-4	12.00	1735
2-5	15.00	1693	2-5	15.00	354	2-5	15.00	3555
2-6	18.00	2356	2-6	18.00	657	2-6	18.00	2725
2-7	21.00	1985	2-7	21.00	2170	2-7	21.00	2212
avg		**1217**	avg		**745**	avg		**1772**
4-1	3.00	3537	4-1	2.00	3954	4-1	2.00	2648
4-2	6.00	2672	4-2	4.00	2073	4-2	4.00	2477
4-3	9.00	1559	4-3	6.00	2604	4-3	6.00	1674
4-4	12.00	1356	4-4	8.00	2106	4-4	8.00	2089
4-5	15.00	1349	4-5	10.00	1999	4-5	10.00	2112
4-6	18.00	1302	4-6	12.00	2107	4-6	12.00	1634
4-7	21.00	928	4-7	21.00	1623	4-7	21.00	1385
avg		**1815**	avg		**2352**	avg		**2003**
6-1	3.00	1509	6-1	3.00	1531	6-1	3.00	1459
6-2	6.00	1823	6-2	6.00	1636	6-2	6.00	1578
6-3	9.00	1529	6-3	9.00	1592	6-3	9.00	2295
6-4	12.00	1360	6-4	12.00	1591	6-4	12.00	2114
6-5	15.00	1794	6-5	15.00	1580	6-5	15.00	2079
6-6	18.00	1679	6-6	18.00	1521	6-6	18.00	1965
6-7	21.00	1434	6-7	21.00	1724	6-7	21.00	2351
avg		**1590**	avg		**1596**	avg		**1977**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.22	in/hr	avg														
7-May-12		2-1	3.00	322.85	157.04	151.88	150.58	1300.00	170.97	0.17	7603.67	3.00	514.82	0.43	7603.67	0.03
		2-2	6.00	324.94	157.58	151.18	150.86	320.00	173.76	0.17	1841.62	6.00	529.96	0.34	1841.62	0.01
		2-3	9.00	333.67	158.08	151.13	150.85	280.00	182.54	0.18	1533.91	9.00	529.96	0.32	1533.91	0.00
		2-4	12.00	339.90	156.25	149.34	149.16	180.00	190.56	0.19	944.58	12.00	651.09	0.31	944.58	0.00
		2-5	15.00	336.04	165.21	150.97	150.53	440.00	185.07	0.19	2377.48	15.00	378.54	0.33	2377.48	0.01
		2-6	18.00	313.96	169.56	152.35	147.53	4820.00	161.61	0.16	29824.89	18.00	166.56	0.80	29824.89	0.20
		2-7	21.00	343.90	163.25	151.37	151.01	360.00	192.53	0.19	1869.84	21.00	151.42	1.25	1869.84	0.02
										AVG =	**6570.86**	22.00	0	0.22	1869.84	0.00
4.00	in/hr	avg									6570.86			**Total Solids Lost:**		**0.27**
7-May-12		4-1	3.00	325.51	164.61	150.35	149.77	580.00	175.16	0.18	3311.26	3.00	41.00	2.50	3311.26	0.07
		4-2	6.00	353.31	164.40	150.14	149.81	330.00	203.17	0.20	1624.26	6.00	31.00	5.54	1624.26	0.08
		4-3	9.00	366.94	155.37	148.36	147.71	650.00	218.58	0.22	2973.74	9.00	22.00	6.44	2973.74	0.16
		4-4	12.00	356.65	157.37	150.62	150.56	60.00	206.03	0.21	291.22	12.00	21.00	8.37	291.22	0.02
		4-5	15.00	366.93	176.57	151.07	150.58	490.00	215.86	0.22	2269.99	15.00	18.00	9.08	2269.99	0.17
		4-6	18.00	357.87	157.23	151.13	150.77	360.00	206.74	0.21	1741.32	18.00	15.00	11.18	1741.32	0.16
		4-7	21.00	353.50	150.88	146.53	146.35	180.00	206.97	0.21	869.69	21.00	20.00	11.67	869.69	0.08
										AVG =	**1868.78**	23.00	0.00	2.14	869.69	0.02
6.08	in/hr	avg									1868.78			**Total Solids Lost:**		**0.76**
7-May-12		6-1	3.00	350.84	159.06	151.33	150.86	470.00	199.51	0.20	2355.77	3.00	15.00	9.38	2355.77	0.18
		6-2	6.00	355.15	164.29	150.45	149.98	470.00	204.70	0.20	2296.04	6.00	14.00	12.14	2296.04	0.23
		6-3	9.00	353.28	156.32	149.74	149.20	540.00	203.54	0.20	2653.04	9.00	14.00	12.86	2653.04	0.28
		6-4	12.00	333.75	159.38	149.78	149.29	490.00	183.97	0.18	2663.48	12.00	13.00	13.67	2663.48	0.30
		6-5	15.00	329.61	172.60	150.12	149.65	470.00	179.49	0.18	2618.53	15.00	11.00	15.02	2618.53	0.33
		6-6	18.00	338.10	165.55	151.46	151.07	390.00	186.64	0.19	2089.58	18.00	11.00	16.36	2089.58	0.29
		6-7	21.00	354.31	158.39	150.73	150.37	360.00	203.58	0.20	1768.35	21.00	21.00	14.66	1768.35	0.22
										AVG =	**2349.26**	30.00	0.00	2.73	1768.35	0.04
											2349.26			**Total Solids Lost:**		**1.88**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.03	in/hr	avg														
4-May-12		2-1	3.00	339.54	147.47	147.47	147.47	0.00	192.07	0.19	0.00	3.00	9084.98	0.03	0.00	0.00
		2-2	6.00	335.49	147.70	147.70	147.70	0.00	187.79	0.19	0.00	6.00	726.80	0.10	0.00	0.00
		2-3	9.00	323.42	150.12	150.12	150.12	0.00	173.30	0.17	0.00	9.00	620.81	0.27	0.00	0.00
		2-4	12.00	320.68	149.77	149.77	149.77	0.00	170.91	0.17	0.00	12.00	605.67	0.29	0.00	0.00
		2-5	15.00	377.81	147.71	147.71	147.71	0.00	230.10	0.23	0.00	15.00	575.38	0.30	0.00	0.00
		2-6	18.00	333.91	178.74	148.95	148.88	70.00	184.96	0.18	378.46	18.00	529.96	0.33	378.46	0.00
		2-7	21.00	298.73	150.39	150.39	150.39	0.00	148.34	0.15	0.00	21.00	787.37	0.32	0.00	0.00
										AVG =	**54.07**	22.00	0.00	0.06	0.00	0.00
4.02	in/hr	avg									54.07			**Total Solids Lost:**		**0.00**
4-May-12		4-1	3.00	340.73	179.88	149.64	149.28	360.00	191.09	0.19	1883.93	3.00	151.42	0.65	1883.93	0.01
		4-2	6.00	301.21	168.15	149.64	149.26	380.00	151.57	0.15	2507.09	6.00	33.00	3.25	2507.09	0.07
		4-3	9.00	326.01	169.25	148.82	148.62	200.00	177.19	0.18	1128.73	9.00	22.00	6.46	1128.73	0.06
		4-4	12.00	338.58	163.81	149.52	149.15	370.00	189.06	0.19	1957.05	12.00	17.00	9.60	1957.05	0.16
		4-5	15.00	312.85	169.47	148.12	147.84	280.00	164.73	0.16	1699.75	15.00	15.00	11.26	1699.75	0.16
		4-6	18.00	351.10	177.98	148.15	147.64	510.00	202.95	0.20	2512.93	18.00	12.00	13.75	2512.93	0.29
		4-7	21.00	322.18	175.83	149.21	148.64	570.00	172.97	0.17	3295.37	21.00	28.00	13.00	3295.37	0.36
										AVG =	**2140.69**	25.00	0.00	2.50	3295.37	0.07
6.02	in/hr	avg									2140.69			**Total Solids Lost:**		**1.17**
4-May-12		6-1	3.00	352.75	178.53	149.11	148.58	530.00	203.64	0.20	2602.63	3.00	23.00	6.04	2602.63	0.13
		6-2	6.00	334.06	201.42	148.03	147.59	440.00	186.03	0.19	2365.21	6.00	14.00	10.64	2365.21	0.21
		6-3	9.00	375.52	193.07	150.92	150.77	150.00	224.60	0.22	667.85	9.00	13.00	13.01	667.85	0.07
		6-4	12.00	347.31	183.01	148.02	147.31	710.00	199.29	0.20	3562.65	12.00	12.00	14.03	3562.65	0.42
		6-5	15.00	351.33	174.58	148.35	147.50	850.00	202.98	0.20	4187.60	15.00	11.00	15.22	4187.60	0.53
		6-6	18.00	342.79	173.63	151.73	150.82	910.00	191.06	0.19	4762.90	18.00	11.00	16.36	4762.90	0.65
		6-7	21.00	354.21	177.14	151.41	150.76	650.00	202.80	0.20	3205.13	21.00	22.00	15.46	3205.13	0.41
										AVG =	**3050.57**	30.00	0.00	3.00	3205.13	0.08
											3050.57			**Total Solids Lost:**		**2.51**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.30	in/hr	avg														
9-May-12		2-1	3.00	342.76	187.50	149.74	149.38	360.00	193.02	0.19	1865.09	3.00	484.53	0.45	1865.09	0.01
		2-2	6.00	345.44	167.49	147.84	147.78	60.00	197.60	0.20	303.64	6.00	439.11	0.37	303.64	0.00
		2-3	9.00	305.37	163.69	150.14	150.12	20.00	155.23	0.16	128.84	9.00	302.83	0.50	128.84	0.00
		2-4	12.00	347.07	183.83	148.13	147.71	420.00	198.94	0.20	2111.19	12.00	181.70	0.76	2111.19	0.01
		2-5	15.00	342.41	190.73	150.57	149.75	820.00	191.84	0.19	4274.40	15.00	121.13	1.20	4274.40	0.04
		2-6	18.00	339.22	159.19	148.72	148.14	580.00	190.50	0.19	3044.62	18.00	90.85	1.70	3044.62	0.04
		2-7	21.00	347.71	164.72	151.01	150.71	300.00	196.70	0.20	1525.17	21.00	151.42	1.91	1525.17	0.02
										AVG =	**1893.28**	23.00	0.00	0.40	1525.17	0.01
3.96	in/hr	avg									1893.28			**Total Solids Lost:**		**0.14**
9-May-12		4-1	3.00	326.87	172.57	150.01	149.23	780.00	176.86	0.18	4410.27	3.00	45.00	1.87	4410.27	0.01
		4-2	6.00	332.29	164.15	150.42	149.29	1130.00	181.87	0.18	6213.23	6.00	28.00	5.19	6213.23	0.27
		4-3	9.00	349.02	156.67	149.65	148.67	980.00	199.37	0.20	4915.48	9.00	20.00	8.01	4915.48	0.33
		4-4	12.00	360.92	167.70	149.88	149.51	370.00	211.04	0.21	1753.22	12.00	16.00	10.44	1753.22	0.15
		4-5	15.00	320.93	153.71	147.98	147.14	840.00	172.95	0.17	4856.90	15.00	16.00	11.25	4856.90	0.46
		4-6	18.00	351.04	161.00	150.30	150.09	210.00	200.74	0.20	1046.13	18.00	14.00	12.29	1046.13	0.11
		4-7	21.00	347.63	154.11	149.27	148.65	620.00	198.36	0.20	3125.63	21.00	26.00	11.57	3125.63	0.30
										AVG =	**3760.12**	23.00	0.00	2.14	3125.63	0.06
6.14	in/hr	avg									3760.12			**Total Solids Lost:**		**1.68**
9-May-12		6-1	3.00	292.20	153.34	149.25	148.96	290.00	142.95	0.14	2028.68	3.00	30.00	5.80	2028.68	0.10
		6-2	6.00	337.21	158.82	151.53	151.27	260.00	185.68	0.19	1400.26	6.00	19.00	7.16	1400.26	0.08
		6-3	9.00	360.83	179.75	150.87	150.27	600.00	209.96	0.21	2857.69	9.00	15.00	10.64	2857.69	0.25
		6-4	12.00	315.69	165.38	147.89	147.47	420.00	167.80	0.17	2502.98	12.00	15.00	12.27	2502.98	0.26
		6-5	15.00	350.56	158.22	148.07	147.50	570.00	202.49	0.20	2814.95	15.00	11.00	13.66	2814.95	0.32
		6-6	18.00	326.76	159.58	151.22	150.82	400.00	175.54	0.18	2278.68	18.00	8.00	19.09	2278.68	0.36
		6-7	21.00	348.20	164.69	150.81	150.27	540.00	197.39	0.20	2735.70	21.00	7.00	25.14	2735.70	0.57
										AVG =	**2374.13**	30.00	0.00	4.29	2735.70	0.10
											2374.13			**Total Solids Lost:**		**2.05**

7-May-12
Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.22 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	575	0.21	0.21	0.21	
2-2	2.00	530	0.11	0.11	0.32	
2-3	3.00	515	0.11	0.11	0.43	
2-4	4.00	530	0.11	0.11	0.55	
2-5	5.00	545	0.11	0.11	0.66	
2-6	6.00	530	0.11	0.11	0.77	
2-7	7.00	530	0.11	0.11	0.88	
2-8	8.00	621	0.10	0.10	0.99	
2-9	9.00	530	0.10	0.10	1.09	
2-10	10.00	515	0.11	0.11	1.21	
2-11	11.00	621	0.11	0.11	1.31	
2-12	12.00	651	0.09	0.09	1.41	
2-13	13.00	591	0.10	0.10	1.50	
2-14	14.00	575	0.10	0.10	1.61	
2-15	15.00	379	0.13	0.13	1.73	
2-16	16.00	288	0.18	0.18	1.91	
2-17	17.00	167	0.26	0.26	2.18	
2-18	18.00	167	0.36	0.36	2.54	
2-19	19.00	136	0.40	0.40	2.93	
2-20	20.00	136	0.44	0.44	3.37	
2-21	21.00	151	0.42	0.42	3.79	
2-end	22.00	0	0.22	0.22	4.01	
					4.01	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	182	0.66	0.66	0.66	
4-2	2	50	0.52	0.52	1.18	
4-3	3	41	1.32	1.32	2.50	
4-4	4	31	1.67	1.67	4.16	
4-5	5	31	1.94	1.94	6.10	
4-6	6	31	1.94	1.94	8.03	
4-7	7	30	1.97	1.97	10.00	
4-8	8	28	2.07	2.07	12.07	
4-9	9	22	2.40	2.40	14.47	
4-10	10	22	2.73	2.73	17.20	
4-11	11	21	2.79	2.79	19.99	
4-12	12	21	2.86	2.86	22.84	
4-13	13	20	2.93	2.93	25.77	
4-14	14	20	3.00	3.00	28.77	
4-15	15	18	3.16	3.16	31.93	
4-16	16	17	3.43	3.43	35.36	
4-17	17	15	3.75	3.75	39.11	
4-18	18	15	4.00	4.00	43.10	
4-19	19	15	4.00	4.00	47.10	
4-20	20	14	4.14	4.14	51.24	
4-21	21	20	3.53	3.53	54.77	
4-end	23.00	0	2.14	2.14	56.91	
					56.91	**Total Collected Runoff (approx)**
6.08 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	37	3.24	3.24	3.24	
6-2	2	16	2.26	2.26	5.51	
6-3	3	15	3.87	3.87	9.38	
6-4	4	15	4.00	4.00	13.38	
6-5	5	15	4.00	4.00	17.38	
6-6	6	14	4.14	4.14	21.51	
6-7	7	14	4.29	4.29	25.80	
6-8	8	14	4.29	4.29	30.08	
6-9	9	14	4.29	4.29	34.37	
6-10	10	13	4.44	4.44	38.81	
6-11	11	13	4.61	4.61	43.43	
6-12	12	13	4.61	4.61	48.04	
6-13	13	12	4.80	4.80	52.84	
6-14	14	12	5.00	5.00	57.84	
6-15	15	11	5.22	5.22	63.06	
6-16	16	11	5.45	5.45	68.51	
6-17	17	11	5.45	5.45	73.97	
6-18	18	11	5.45	5.45	79.42	
6-19	19	11	5.45	5.45	84.88	
6-20	20	11	5.45	5.45	90.33	
6-21	21	21	3.75	3.75	94.08	
6-end	30.00	0	2.73	2.73	96.81	
					96.81	**Total Collected Runoff (approx)**

4-May-12
Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.03 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	9085	0.01	0.01	0.01	
2-2	2.00	9085	0.01	0.01	0.02	
2-3	3.00	9085	0.01	0.01	0.03	
2-4	4.00	9085	0.01	0.01	0.03	
2-5	5.00	742	0.01	0.01	0.05	
2-6	6.00	727	0.08	0.08	0.13	
2-7	7.00	651	0.09	0.09	0.21	
2-8	8.00	651	0.09	0.09	0.31	
2-9	9.00	621	0.09	0.09	0.40	
2-10	10.00	621	0.10	0.10	0.50	
2-11	11.00	621	0.10	0.10	0.59	
2-12	12.00	606	0.10	0.10	0.69	
2-13	13.00	606	0.10	0.10	0.79	
2-14	14.00	575	0.10	0.10	0.89	
2-15	15.00	575	0.10	0.10	1.00	
2-16	16.00	560	0.11	0.11	1.10	
2-17	17.00	545	0.11	0.11	1.21	
2-18	18.00	530	0.11	0.11	1.32	
2-19	19.00	530	0.11	0.11	1.44	
2-20	20.00	515	0.11	0.11	1.55	
2-21	21.00	787	0.09	0.09	1.64	
2-end	22.00	0	0.06	0.06	1.70	
					1.70	**Total Collected Runoff (approx)**
4.02 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	651	0.18	0.18	0.18	
4-2	2	212	0.14	0.14	0.32	
4-3	3	151	0.33	0.33	0.65	
4-4	4	91	0.50	0.50	1.15	
4-5	5	34	0.96	0.96	2.11	
4-6	6	33	1.79	1.79	3.90	
4-7	7	30	1.90	1.90	5.81	
4-8	8	27	2.11	2.11	7.91	
4-9	9	22	2.45	2.45	10.36	
4-10	10	19	2.93	2.93	13.29	
4-11	11	18	3.24	3.24	16.53	
4-12	12	17	3.43	3.43	19.96	
4-13	13	16	3.64	3.64	23.59	
4-14	14	16	3.75	3.75	27.34	
4-15	15	15	3.87	3.87	31.21	
4-16	16	14	4.14	4.14	35.35	
4-17	17	12	4.61	4.61	39.97	
4-18	18	12	5.00	5.00	44.96	
4-19	19	12	5.00	5.00	49.96	
4-20	20	12	5.00	5.00	54.96	
4-21	21	28	3.00	3.00	57.96	
4-end	25	0	2.50	2.50	60.46	
					60.46	**Total Collected Runoff (approx)**
6.02 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	50	2.40	2.40	2.40	
6-2	2	32	1.46	1.46	3.86	
6-3	3	23	2.18	2.18	6.04	
6-4	4	17	3.00	3.00	9.04	
6-5	5	16	3.64	3.64	12.68	
6-6	6	14	4.00	4.00	16.68	
6-7	7	14	4.29	4.29	20.97	
6-8	8	14	4.29	4.29	25.25	
6-9	9	13	4.44	4.44	29.69	
6-10	10	13	4.61	4.61	34.31	
6-11	11	13	4.61	4.61	38.92	
6-12	12	12	4.80	4.80	43.72	
6-13	13	12	5.00	5.00	48.72	
6-14	14	12	5.00	5.00	53.72	
6-15	15	11	5.22	5.22	58.94	
6-16	16	11	5.45	5.45	64.39	
6-17	17	11	5.45	5.45	69.85	
6-18	18	11	5.45	5.45	75.30	
6-19	19	10	5.71	5.71	81.01	
6-20	20	10	6.00	6.00	87.01	
6-21	21	22	3.75	3.75	90.76	
6-end	30	0	3.00	3.00	93.76	
					93.76	**Total Collected Runoff (approx)**

9-May-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.30 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	545	0.22	0.22	0.22	
2-2	2.00	530	0.11	0.11	0.33	
2-3	3.00	485	0.12	0.12	0.45	
2-4	4.00	485	0.12	0.12	0.57	
2-5	5.00	515	0.12	0.12	0.69	
2-6	6.00	439	0.13	0.13	0.82	
2-7	7.00	379	0.15	0.15	0.97	
2-8	8.00	333	0.17	0.17	1.14	
2-9	9.00	303	0.19	0.19	1.32	
2-10	10.00	273	0.21	0.21	1.53	
2-11	11.00	212	0.25	0.25	1.78	
2-12	12.00	182	0.30	0.30	2.08	
2-13	13.00	151	0.36	0.36	2.45	
2-14	14.00	151	0.40	0.40	2.84	
2-15	15.00	121	0.44	0.44	3.28	
2-16	16.00	106	0.53	0.53	3.81	
2-17	17.00	106	0.57	0.57	4.38	
2-18	18.00	91	0.61	0.61	4.99	
2-19	19.00	91	0.66	0.66	5.65	
2-20	20.00	76	0.72	0.72	6.37	
2-21	21.00	151	0.53	0.53	6.89	
2-end	23.00	0	0.40	0.40	7.29	
					7.29	**Total Collected Runoff (approx)**
3.96 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	151	0.79	0.79	0.79	
4-2	2	136	0.42	0.42	1.21	
4-3	3	45	0.66	0.66	1.87	
4-4	4	40	1.41	1.41	3.28	
4-5	5	30	1.71	1.71	5.00	
4-6	6	28	2.07	2.07	7.07	
4-7	7	23	2.35	2.35	9.42	
4-8	8	21	2.73	2.73	12.15	
4-9	9	20	2.93	2.93	15.07	
4-10	10	18	3.16	3.16	18.23	
4-11	11	16	3.53	3.53	21.76	
4-12	12	16	3.75	3.75	25.51	
4-13	13	16	3.75	3.75	29.26	
4-14	14	16	3.75	3.75	33.01	
4-15	15	16	3.75	3.75	36.76	
4-16	16	15	3.87	3.87	40.63	
4-17	17	14	4.14	4.14	44.77	
4-18	18	14	4.29	4.29	49.05	
4-19	19	14	4.29	4.29	53.34	
4-20	20	14	4.29	4.29	57.62	
4-21	21	26	3.00	3.00	60.62	
4-end	23	0	2.14	2.14	62.76	
					62.76	**Total Collected Runoff (approx)**
6.14 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	46	2.61	2.61	2.61	
6-2	2	38	1.43	1.43	4.04	
6-3	3	30	1.76	1.76	5.80	
6-4	4	31	1.97	1.97	7.77	
6-5	5	22	2.26	2.26	10.03	
6-6	6	19	2.93	2.93	12.96	
6-7	7	18	3.24	3.24	16.20	
6-8	8	16	3.53	3.53	19.73	
6-9	9	15	3.87	3.87	23.60	
6-10	10	15	4.00	4.00	27.60	
6-11	11	14	4.14	4.14	31.74	
6-12	12	15	4.14	4.14	35.88	
6-13	13	15	4.00	4.00	39.88	
6-14	14	12	4.44	4.44	44.32	
6-15	15	11	5.22	5.22	49.54	
6-16	16	10	5.71	5.71	55.25	
6-17	17	9	6.32	6.32	61.56	
6-18	18	8	7.06	7.06	68.62	
6-19	19	7	8.00	8.00	76.62	
6-20	20	7	8.57	8.57	85.19	
6-21	21	7	8.57	8.57	93.76	
6-end	30	0	4.29	4.29	98.05	
					98.05	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	7-May-12	4-May-12	9-May-12
Avg Moisture Content:	**22.40%**	**21.64%**	**22.84%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	242.68	69.48	244.9
Wt. Of cup + dry soil, g	238.11	61.98	239.82
Wt. Of cup, g	217.1	28.51	217.14
Wt. Of dry soil, g	21.01	33.47	22.68
Wt. Of water, g	4.57	7.5	5.08
Water Content, w%	21.8%	22.4%	22.4%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	242.7	68.64	244.01
Wt. Of cup + dry soil, g	237.92	61.6	238.97
Wt. Of cup, g	216.84	28.51	216.88
Wt. Of dry soil, g	21.08	33.09	22.09
Wt. Of water, g	4.78	7.04	5.04
Water Content, w%	22.7%	21.3%	22.8%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	245.23	66.07	251.54
Wt. Of cup + dry soil, g	239.92	59.49	244.95
Wt. Of cup, g	216.61	28.51	216.67
Wt. Of dry soil, g	23.31	30.98	28.28
Wt. Of water, g	5.31	6.58	6.59
Water Content, w%	22.8%	21.2%	23.3%

Soil Loss Data

Slope No.	1	2	3
Test Date:	7-May-12	4-May-12	9-May-12
Total Soil Loss	**2.59**	**3.47**	**3.61**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		40.9	4.5	113.5
Sub-Sample	Wt. Of cup + wet soil, g	40.9	4.5	113.5
	Wt. Of cup + dry soil, g	40.9	4.5	113.5
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	40.9	4.5	113.5
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.090	0.010	0.250

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		454.0	435.8	671.9
Sub-Sample	Wt. Of cup + wet soil, g	454.0	435.8	671.9
	Wt. Of cup + dry soil, g	454.0	435.8	671.9
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	454	435.8	671.9
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		1.000	0.960	1.480

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		681.0	1135.0	853.5
Sub-Sample	Wt. Of cup + wet soil, g	681.0	1135.0	853.5
	Wt. Of cup + dry soil, g	681.0	1135.0	853.5
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	681	1135	853.5
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		1.500	2.500	1.880

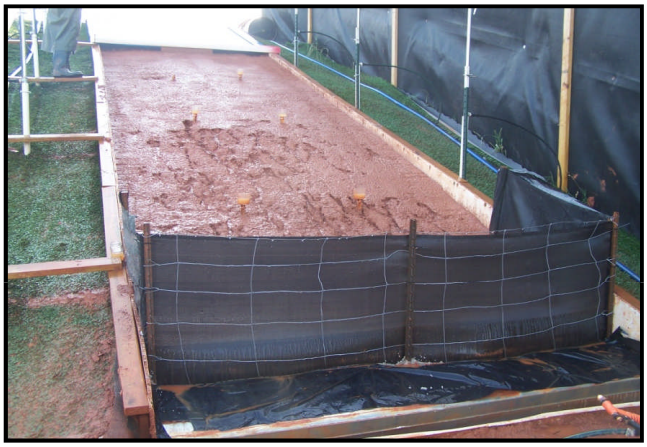
TYPICAL TESTING PICTURES



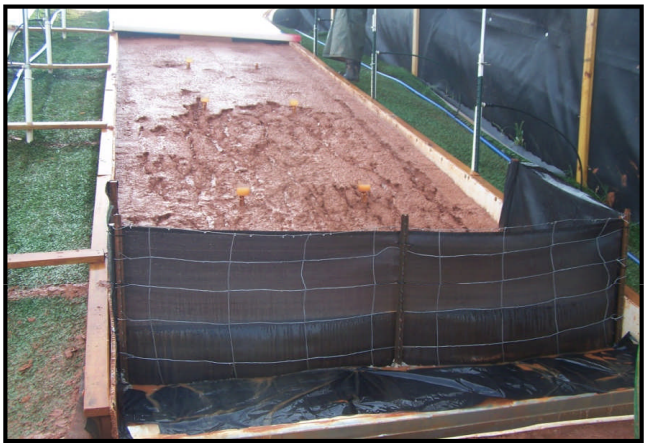
Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 16-May-12 | Start Rain: 8:03 AM | End Rain: 8:23 AM

Sampling interval: 0:03 | End Runoff: 8:26 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: FW402 | Descr:. Ten Cate Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

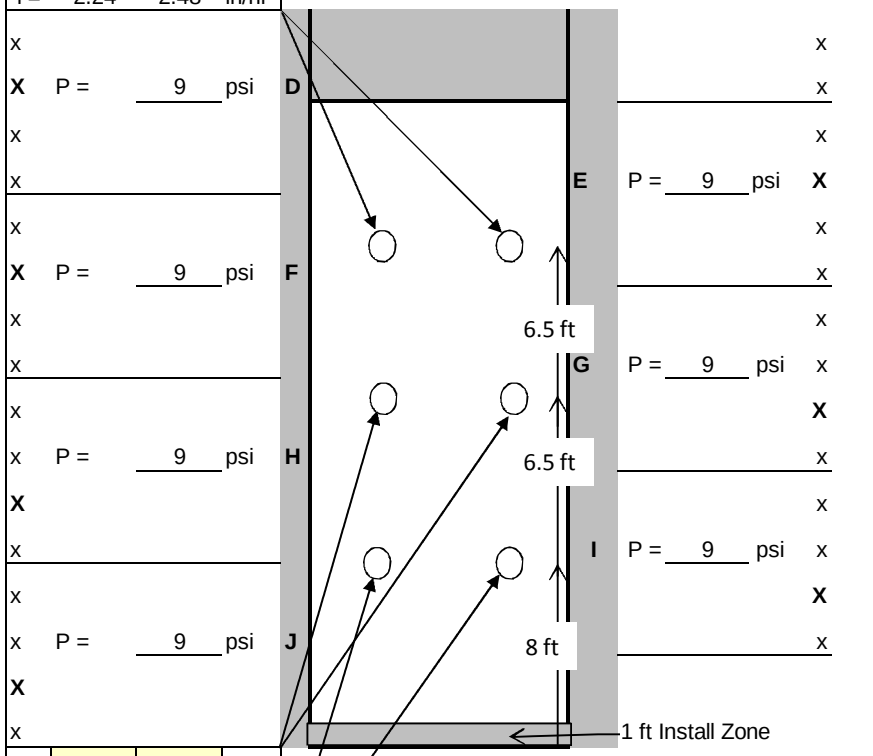
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 19 21 mm

i = 2.24 2.48 in/hr



d = 20 22 mm

i = 2.36 2.60 in/hr

w_{c2} = 21.5%

d = 16 18 mm

i = 1.89 2.13 in/hr

w_{c3} = 21.8%

x x **X** x

P = 9 psi

Temp. 74 deg

Hum. 92 %

Average Depth: **19** **mm**

Avg Rainfall Intensity: **2.28** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:06	X	X
8:09	X	X
8:12	X	X
8:15	X	X
8:18	X	X
8:21	X	X
8:24	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	24
2	250	24
3	250	24
4	250	23
5	250	23
6	250	20
7	250	20
8	250	18
9	250	18
10	250	18
11	250	14
12	250	14
13	250	13
14	250	12
15	250	9
16	250	8
17	250	7
18	250	6
19	250	5
20	250	5
21	250	10
23	250	0

NOTES:
Wind: 0 mph. Direction: N
Approx 8 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 16-May-12 | Start Rain: 8:34 AM | End Rain: 8:54 AM

Sampling interval: 0:03 | End Runoff: 8:59 AM

Rain Time (min): 20.00 | Test Time (min): 25.00

Product: FW402 | Descr:. Ten Cate Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

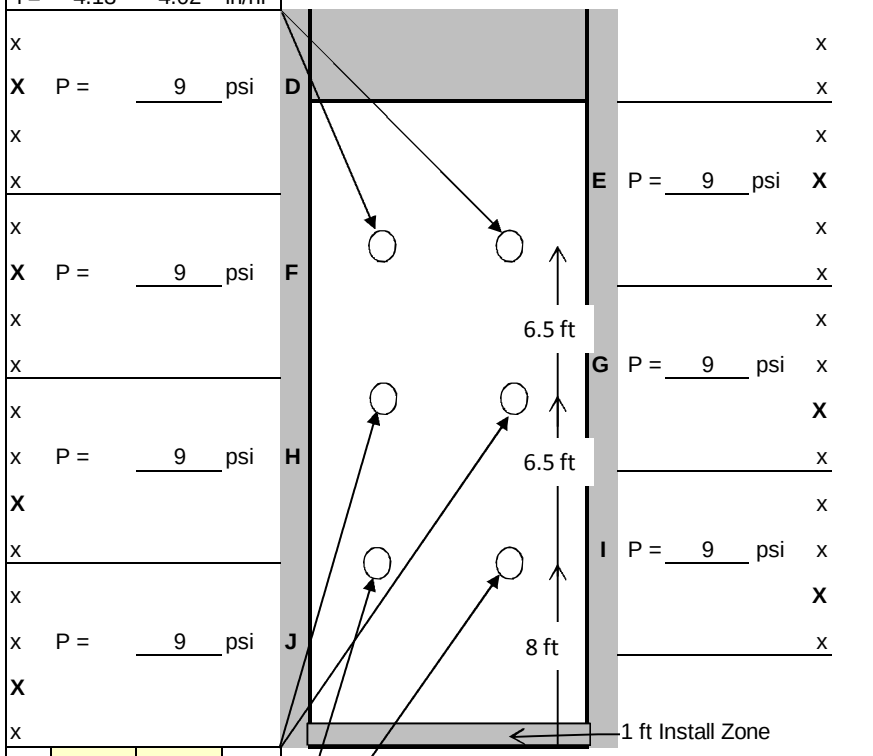
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 35 34 mm

i = 4.13 4.02 in/hr



d = 36 38 mm

i = 4.25 4.49 in/hr

w_{c2} = 21.5%

d = 30 34 mm

i = 3.54 4.02 in/hr

w_{c3} = 21.8%

x x X x

P = 9 psi

Temp. 68 deg

Hum. 84 %

Average Depth: 35 mm

Avg Rainfall Intensity: 4.07 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:37	X	X
8:40	X	X
8:43	X	X
8:46	X	X
8:49	X	X
8:52	X	X
8:55	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	42
2	3785	27
3	3785	23
4	3785	22
5	3785	28
6	3785	18
7	3785	16
8	3785	16
9	3785	16
10	3785	16
11	3785	15
12	3785	15
13	3785	15
14	3785	15
15	3785	14
16	3785	15
17	3785	15
18	3785	14
19	3785	14
20	3785	14
21	3785	20
25	3785	0

NOTES:

Wind: 1 mph. Direction: N

Approx 75 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 16-May-12 | Start Rain: 9:03 AM | End Rain: 9:23 AM

Sampling interval: 0:03 | End Runoff: 9:33 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: FW402 | Descr:. Ten Cate Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

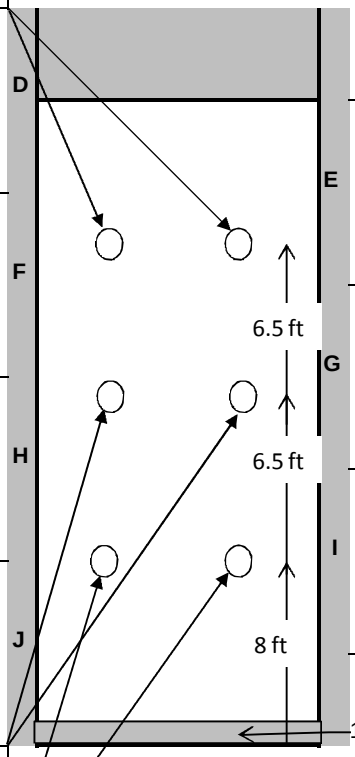
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 49 50 mm

i = 5.79 5.91 in/hr



x							x	
X	P =	9	psi	**D**			x	
x							x	
x					**E**	P = 9 psi	**X**	
x							x	
X	P =	9	psi	**F**			x	
x							x	
x					**G**	P = 9 psi	x	
x							**X**	
x	P =	9	psi	**H**			x	
X							x	
x					**I**	P = 9 psi	x	
x							**X**	
x	P =	9	psi	**J**			x	
X								
x								

1 ft Install Zone

d = 52 55 mm

i = 6.14 6.50 in/hr

x x **X** x

P = 9 psi | Temp. 69 deg | Hum. 83 %

w_{c2} = 21.5%

d = 50 52 mm

i = 5.91 6.14 in/hr

w_{c3} = 21.8%

Average Depth: 51 mm

Avg Rainfall Intensity: 6.06 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:06	X	X
9:09	X	X
9:12	X	X
9:15	X	X
9:18	X	X
9:21	X	X
9:24	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	13
2	3785	10
3	3785	9
4	3785	9
5	3785	9
6	3785	9
7	3785	9
8	3785	9
9	3785	9
10	3785	9
11	3785	9
12	3785	8
13	3785	8
14	3785	8
15	3785	8
16	3785	8
17	3785	8
18	3785	8
19	3785	8
20	3785	8
21	3785	16
30	3785	0

NOTES:

Wind: 0-1 mph. Direction: N

Approx 150 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date: 18-May-12 | Start Rain: 7:04 AM | End Rain: 7:24 AM

Sampling interval: 0:03 | End Runoff: 7:27 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: FW402 | Descr:. Ten Cate Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

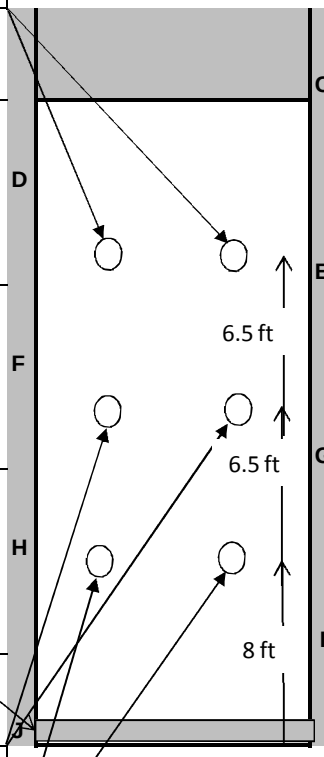
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 18 17 mm

i = 2.13 2.01 in/hr



x						x
			C	P = 9 psi		X
x						x
X	P = 9 psi		D			x
x						x
x			E	P = 9 psi		X
x						x
X	P = 9 psi		F			x
x						x
x			G	P = 9 psi		x
x						X
x	P = 9 psi		H			x
X						x
x			I	P = 9 psi		x
						X
			J			x

d = 17 17 mm

i = 2.01 2.01 in/hr

x x **X** x

P = 9 psi

Temp. 63 deg

Hum. 86 %

w_{c2} = 21.5%

d = 15 19 mm

i = 1.77 2.24 in/hr

w_{c3} = 21.8%

Average Depth: 17 mm

Avg Rainfall Intensity: 2.03 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:07	X	X
7:10	X	X
7:13	X	X
7:16	X	X
7:19	X	X
7:22	X	X
7:25	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	26
2	250	25
3	250	22
4	250	16
5	250	11
6	250	9
7	250	7
8	250	6
9	250	6
10	250	5
11	250	5
12	250	5
13	250	5
14	250	4
15	250	4
16	250	4
17	250	4
18	250	4
19	250	4
20	250	4
21	250	12
23	250	0

NOTES:

Wind: 0-2 mph. Direction: E

Approx 15 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date:	18-May-12	Start Rain:	7:33 AM	End Rain:	7:53 AM
		Sampling interval:	0:03	End Runoff:	7:58 AM
		Rain Time (min):	20.00	Test Time (min):	25.00
Product:	FW402	Descr:.	Ten Cate Type C Silt Fence		
Lot #:		Posts:	Steel	Spacing:	4-ft

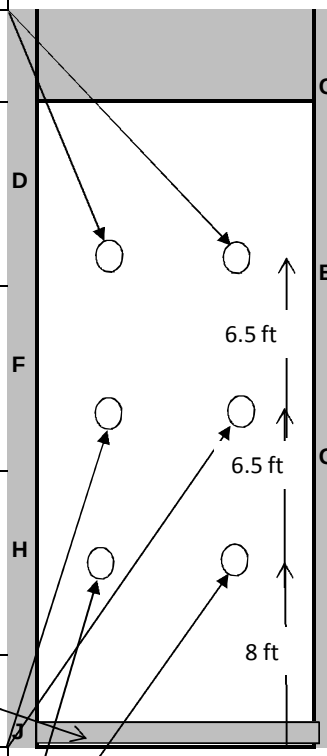
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d =	34	33	mm
i =	4.02	3.90	in/hr



x					x
			C	P = 9 psi	X
x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
					X
					x

1 ft Install Zone

d =	32	32	mm
i =	3.78	3.78	in/hr

w_{c2} = 21.5%

d =	36	35	mm
i =	4.25	4.13	in/hr

w_{c3} = 21.8%

x x X x

P = 9 psi

Temp. 65 deg

Hum. 84 %

Average Depth: 34 mm

Avg Rainfall Intensity: 3.98 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:36	X	X
7:39	X	X
7:42	X	X
7:45	X	X
7:48	X	X
7:51	X	X
7:54	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	8
2	3785	25
3	3785	22
4	3785	18
5	3785	16
6	3785	15
7	3785	16
8	3785	16
9	3785	15
10	3785	15
11	3785	14
12	3785	14
13	3785	14
14	3785	12
15	3785	12
16	3785	12
17	3785	12
18	3785	12
19	3785	12
20	3785	12
21	3785	25
25	3785	0

NOTES:
Wind: 0-1 mph. Direction: E
Approx 85 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date:	18-May-12	Start Rain:	8:03 AM	End Rain:	8:23 AM
		Sampling interval:	0:03	End Runoff:	8:33 AM
		Rain Time (min):	20.00	Test Time (min):	30.00
Product:	FW402	Descr:.	Ten Cate Type C Silt Fence		
Lot #:		Posts:	Steel	Spacing:	4-ft

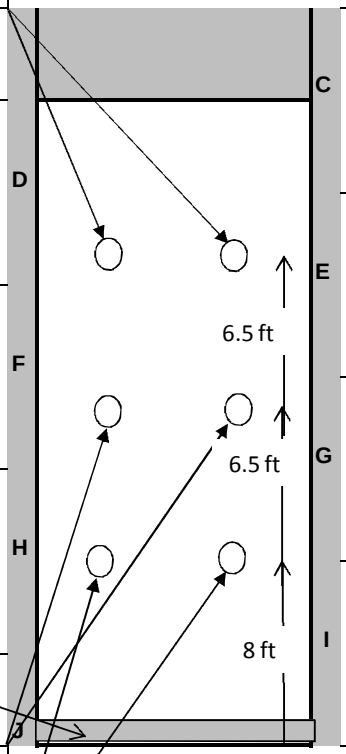
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d =	50	53	mm
i =	5.91	6.26	in/hr



x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
C P = 9 psi **X**
x
x

x
E P = 9 psi **X**
x
x

x
G P = 9 psi x
X
x

x
I P = 9 psi x
X
x

x x **X** x

P = 9 psi

Temp. 66 deg

Hum. 81 %

d =	48	53	mm
i =	5.67	6.26	in/hr

w_{c2} = 21.5%

d =	51	52	mm
i =	6.02	6.14	in/hr

w_{c3} = 21.8%

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.04** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:06	X	X
8:09	X	X
8:12	X	X
8:15	X	X
8:18	X	X
8:21	X	X
8:24	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	30
2	3785	20
3	3785	12
4	3785	12
5	3785	10
6	3785	10
7	3785	9
8	3785	8
9	3785	8
10	3785	8
11	3785	8
12	3785	7
13	3785	7
14	3785	7
15	3785	7
16	3785	7
17	3785	6
18	3785	6
19	3785	6
20	3785	6
21	3785	13
30	3785	0

NOTES:
Wind: 1-3 mph. Direction: E
Approx 155 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date: 15-May-12 | Start Rain: 7:13 AM | End Rain: 7:33 AM

Sampling interval: 0:03 | End Runoff: 7:36 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: FW402 | Descr:. Ten Cate Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

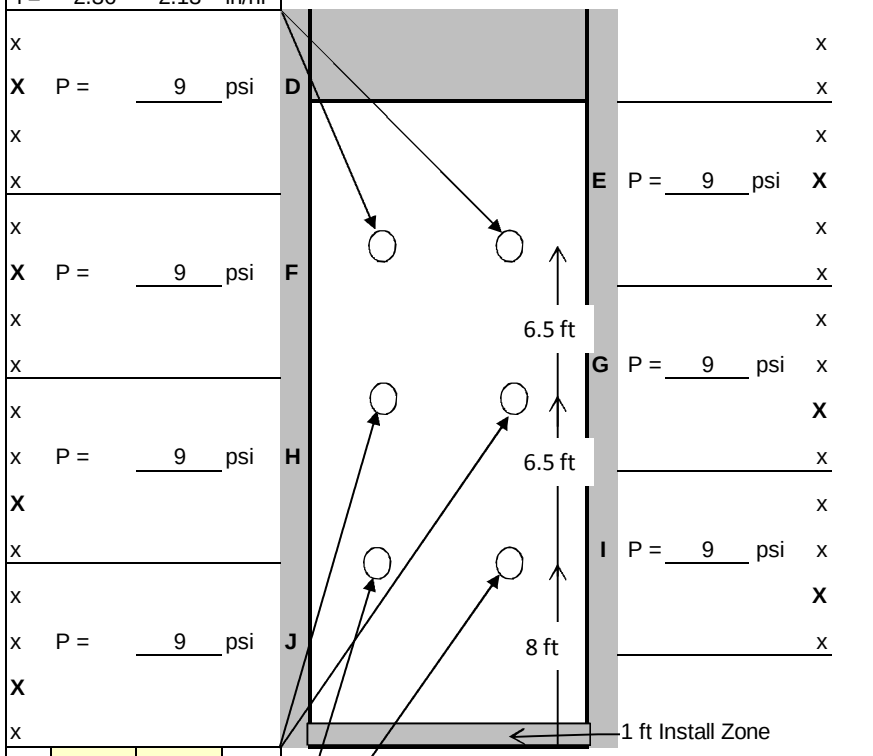
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 20 18 mm

i = 2.36 2.13 in/hr



d = 20 19 mm

i = 2.36 2.24 in/hr

w_{c2} = 21.5%

d = 20 19 mm

i = 2.36 2.24 in/hr

w_{c3} = 21.8%

x x X x

P = 9 psi

Temp. 64 deg

Hum. 95 %

Average Depth: 19 mm

Avg Rainfall Intensity: 2.28 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:16	X	X
7:19	X	X
7:22	X	X
7:25	X	X
7:28	X	X
7:31	X	X
7:34	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	44
2	250	25
3	250	19
4	250	14
5	250	12
6	250	8
7	250	7
8	250	7
9	250	6
10	250	6
11	250	6
12	250	5
13	250	6
14	250	5
15	250	5
16	250	5
17	250	5
18	250	5
19	250	5
20	250	5
21	250	12
23	250	0

NOTES: Test on Slope G1

Wind: 0 mph. Direction: N

Approx 12 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date:	15-May-12	Start Rain:	7:42 AM	End Rain:	8:02 AM
		Sampling interval:	0:03	End Runoff:	8:06 AM
		Rain Time (min):	20.00	Test Time (min):	24.00
Product:	FW402	Descr:.	Ten Cate Type C Silt Fence		
Lot #:		Posts:	Steel	Spacing:	4-ft

TOP OF SLOPE

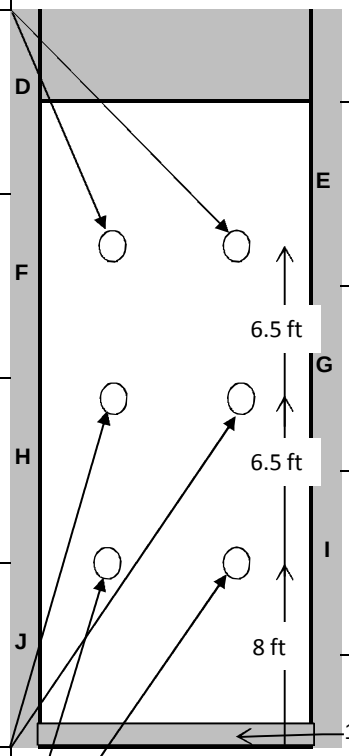
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 30 32 mm

i = 3.54 3.78 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 35 39 mm

i = 4.13 4.61 in/hr

w_{c2} = 21.5%

d = 34 36 mm

i = 4.02 4.25 in/hr

w_{c3} = 21.8%

x x **X** x

P = 9 psi

Temp. 64 deg

Hum. 95 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.06** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:45	X	X
7:48	X	X
7:51	X	X
7:54	X	X
7:57	X	X
8:00	X	X
8:03	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	7
2	3785	19
3	3785	20
4	3785	19
5	3785	18
6	3785	17
7	3785	16
8	3785	16
9	3785	16
10	3785	16
11	3785	16
12	3785	15
13	3785	15
14	3785	15
15	3785	15
16	3785	15
17	3785	14
18	3785	14
19	3785	14
20	3785	14
21	3785	22
24	3785	0

NOTES:
Wind: 0 mph. Direction: N
Approx 75 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 15-May-12 | Start Rain: 8:11 AM | End Rain: 8:31 AM

Sampling interval: 0:03 | End Runoff: 8:41 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: FW402 | Descr:. Ten Cate Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

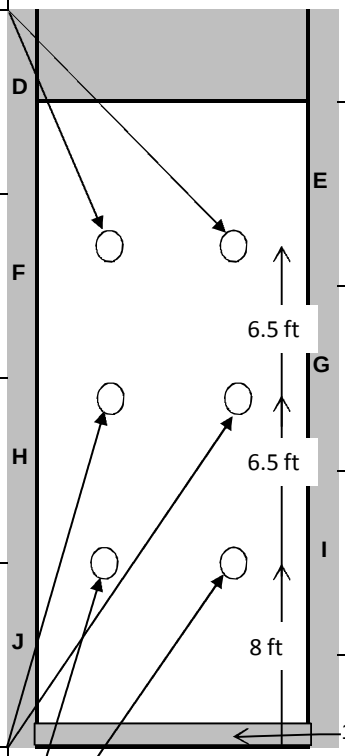
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 53 54 mm

i = 6.26 6.38 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 49 52 mm

i = 5.79 6.14 in/hr

w_{c2} = 21.5%

d = 49 51 mm

i = 5.79 6.02 in/hr

w_{c3} = 21.8%

x x **X** x

P = 9 psi

Temp. 65 deg

Hum. 95 %

Average Depth: 51 mm

Avg Rainfall Intensity: 6.06 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:14	X	X
8:17	X	X
8:20	X	X
8:23	X	X
8:26	X	X
8:29	X	X
8:32	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	15
2	3785	13
3	3785	10
4	3785	8
5	3785	8
6	3785	9
7	3785	8
8	3785	8
9	3785	8
10	3785	8
11	3785	8
12	3785	8
13	3785	8
14	3785	8
15	3785	8
16	3785	7
17	3785	7
18	3785	7
19	3785	7
20	3785	7
21	3785	20
30	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 155 gallons collected.

FW402 Ten Cate Type C Silt Fence

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	188
2	20	106
3	20	185

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	686	2-1	3.00	518	2-1	3.00	804
2-2	6.00	1947	2-2	6.00	622	2-2	6.00	2431
2-3	9.00	2323	2-3	9.00	732	2-3	9.00	9999
2-4	12.00	3031	2-4	12.00	1007	2-4	12.00	5240
2-5	15.00	9999	2-5	15.00	3663	2-5	15.00	3076
2-6	18.00	3353	2-6	18.00	3882	2-6	18.00	3488
2-7	21.00	2002	2-7	21.00	1730	2-7	21.00	1313
avg		**3334**	avg		**1736**	avg		**3764**
4-1	3.00	9999	4-1	2.00	6205	4-1	2.00	9999
4-2	6.00	3664	4-2	4.00	8030	4-2	4.00	3941
4-3	9.00	3875	4-3	6.00	9518	4-3	6.00	3799
4-4	12.00	6265	4-4	8.00	7754	4-4	8.00	3424
4-5	15.00	8954	4-5	10.00	5365	4-5	10.00	3297
4-6	18.00	3418	4-6	12.00	9999	4-6	12.00	3167
4-7	21.00	1908	4-7	21.00	1745	4-7	21.00	2029
avg		**5440**	avg		**6945**	avg		**4237**
6-1	3.00	9999	6-1	3.00	9999	6-1	3.00	3679
6-2	6.00	4417	6-2	6.00	3853	6-2	6.00	3023
6-3	9.00	3355	6-3	9.00	3720	6-3	9.00	3005
6-4	12.00	2725	6-4	12.00	3779	6-4	12.00	2841
6-5	15.00	2667	6-5	15.00	3298	6-5	15.00	2679
6-6	18.00	2556	6-6	18.00	3446	6-6	18.00	2402
6-7	21.00	1107	6-7	21.00	1497	6-7	21.00	1327
avg		**3832**	avg		**4227**	avg		**2708**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.28	in/hr	avg														
16-May-12		2-1	3.00	340.39	174.60	150.59	146.79	3800.00	189.80	0.19	20021.07	3.00	363.40	0.66	20021.07	0.11
		2-2	6.00	257.59	163.34	151.60	151.35	250.00	105.99	0.11	2358.71	6.00	302.83	0.53	2358.71	0.01
		2-3	9.00	355.01	163.38	149.44	149.07	370.00	205.57	0.21	1799.87	9.00	272.55	0.63	1799.87	0.01
		2-4	12.00	355.08	169.36	152.45	150.88	1570.00	202.63	0.20	7748.11	12.00	211.98	0.75	7748.11	0.05
		2-5	15.00	319.46	174.14	150.67	147.75	2920.00	168.79	0.17	17299.60	15.00	136.27	0.99	17299.60	0.14
		2-6	18.00	369.23	175.16	150.59	149.27	1320.00	218.64	0.22	6037.32	18.00	90.85	1.60	6037.32	0.08
		2-7	21.00	330.30	162.96	149.54	148.98	560.00	180.76	0.18	3098.03	21.00	151.42	2.04	3098.03	0.05
										AVG =	**8337.53**	23.00	0	0.40	3098.03	0.01
4.07	in/hr	avg									8337.53			**Total Solids Lost:**		**0.47**
16-May-12		4-1	3.00	350.44	164.53	151.54	150.60	940.00	198.90	0.20	4725.99	3.00	23.00	7.00	4725.99	0.28
		4-2	6.00	356.20	160.31	151.08	149.99	1090.00	205.12	0.21	5313.96	6.00	18.00	7.67	5313.96	0.34
		4-3	9.00	358.12	160.07	151.77	150.89	880.00	206.35	0.21	4264.60	9.00	16.00	11.03	4264.60	0.39
		4-4	12.00	335.72	155.43	147.14	146.45	690.00	188.58	0.19	3658.92	12.00	15.00	11.62	3658.92	0.35
		4-5	15.00	317.39	161.94	150.54	149.58	960.00	166.85	0.17	5753.67	15.00	14.00	12.14	5753.67	0.58
		4-6	18.00	348.81	162.97	152.66	151.92	740.00	196.15	0.20	3772.62	18.00	14.00	12.27	3772.62	0.39
		4-7	21.00	316.12	156.12	148.43	147.65	780.00	167.69	0.17	4651.44	21.00	20.00	12.10	4651.44	0.47
										AVG =	**4591.60**	25.00	0.00	2.14	4651.44	0.08
6.06	in/hr	avg									4591.60			**Total Solids Lost:**		**2.88**
16-May-12		6-1	3.00	331.07	175.25	151.69	150.86	830.00	179.38	0.18	4627.05	3.00	9.00	20.76	4627.05	0.80
		6-2	6.00	323.07	159.72	150.49	149.98	510.00	172.58	0.17	2955.15	6.00	9.00	20.00	2955.15	0.49
		6-3	9.00	332.89	166.99	149.88	148.97	910.00	183.01	0.18	4972.41	9.00	9.00	20.00	4972.41	0.83
		6-4	12.00	330.63	160.25	150.08	148.89	1190.00	180.55	0.18	6590.97	12.00	8.00	20.39	6590.97	1.12
		6-5	15.00	328.78	165.41	150.44	149.65	790.00	178.34	0.18	4429.74	15.00	8.00	22.50	4429.74	0.83
		6-6	18.00	337.55	172.77	152.68	151.89	790.00	184.87	0.18	4273.27	18.00	8.00	22.50	4273.27	0.80
		6-7	21.00	362.67	166.89	150.54	150.37	170.00	212.13	0.21	801.40	21.00	16.00	20.00	801.40	0.13
										AVG =	**4092.86**	30.00	0.00	3.75	801.40	0.03
											4092.86			**Total Solids Lost:**		**5.04**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.03	in/hr	avg														
18-May-12		2-1	3.00	346.77	161.30	151.61	150.50	1110.00	195.16	0.20	5687.64	3.00	333.12	0.63	5687.64	0.03
		2-2	6.00	338.49	181.53	150.97	150.86	110.00	187.52	0.19	586.60	6.00	136.27	0.90	586.60	0.00
		2-3	9.00	337.35	173.06	150.97	150.88	90.00	186.38	0.19	482.88	9.00	90.85	1.77	482.88	0.01
		2-4	12.00	305.04	161.14	149.27	149.16	110.00	155.77	0.16	706.17	12.00	75.71	2.31	706.17	0.01
		2-5	15.00	343.44	184.33	151.36	150.33	1030.00	192.08	0.19	5362.35	15.00	60.57	2.66	5362.35	0.12
		2-6	18.00	347.81	161.46	152.59	147.63	4960.00	195.22	0.20	25407.23	18.00	60.57	2.97	25407.23	0.63
		2-7	21.00	346.17	178.79	151.02	150.60	420.00	195.15	0.20	2152.19	21.00	181.70	2.48	2152.19	0.04
										AVG =	**5769.30**	23.00	0.00	0.50	2152.19	0.01
3.98	in/hr	avg									5769.30			**Total Solids Lost:**		**0.86**
18-May-12		4-1	3.00	312.13	178.77	149.95	149.17	780.00	162.18	0.16	4809.47	3.00	22.00	4.36	4809.47	0.18
		4-2	6.00	320.44	161.99	151.94	151.09	850.00	168.50	0.17	5044.51	6.00	15.00	10.40	5044.51	0.44
		4-3	9.00	329.78	163.15	148.79	147.71	1080.00	180.99	0.18	5967.18	9.00	15.00	11.49	5967.18	0.57
		4-4	12.00	348.08	163.56	151.36	150.35	1010.00	196.72	0.20	5134.20	12.00	14.00	12.42	5134.20	0.53
		4-5	15.00	329.60	159.68	151.48	150.38	1100.00	178.12	0.18	6175.61	15.00	12.00	13.90	6175.61	0.72
		4-6	18.00	312.38	164.16	151.69	150.77	920.00	160.69	0.16	5725.31	18.00	12.00	15.00	5725.31	0.72
		4-7	21.00	319.05	154.76	147.52	146.75	770.00	171.53	0.17	4489.01	21.00	25.00	13.24	4489.01	0.50
										AVG =	**5335.04**	25.00	0.00	2.50	4489.01	0.09
6.04	in/hr	avg									5335.04			**Total Solids Lost:**		**3.74**
18-May-12		6-1	3.00	327.63	165.32	151.46	150.38	1080.00	176.17	0.18	6130.44	3.00	12.00	10.15	6130.44	0.52
		6-2	6.00	323.30	155.73	148.17	147.45	720.00	175.13	0.18	4111.23	6.00	10.00	16.45	4111.23	0.56
		6-3	9.00	326.98	158.09	150.36	149.53	830.00	176.62	0.18	4699.35	9.00	8.00	20.87	4699.35	0.82
		6-4	12.00	338.12	159.47	148.78	148.06	720.00	189.34	0.19	3802.68	12.00	7.00	23.00	3802.68	0.73
		6-5	15.00	317.33	157.79	149.93	149.17	760.00	167.40	0.17	4540.02	15.00	7.00	25.71	4540.02	0.97
		6-6	18.00	327.42	158.50	150.63	150.06	570.00	176.79	0.18	3224.16	18.00	6.00	27.80	3224.16	0.75
		6-7	21.00	344.79	156.60	149.54	148.79	750.00	195.25	0.20	3841.23	21.00	13.00	26.31	3841.23	0.84
										AVG =	**4335.59**	30.00	0.00	5.00	3841.23	0.16
											4335.59			**Total Solids Lost:**		**5.36**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.28	in/hr	avg														
15-May-12		2-1	3.00	346.31	169.06	149.56	147.39	2170.00	196.75	0.20	11029.22	3.00	287.69	0.48	11029.22	0.04
		2-2	6.00	341.53	169.35	148.21	147.78	430.00	193.32	0.19	2224.29	6.00	121.13	0.94	2224.29	0.02
		2-3	9.00	344.02	176.15	151.65	150.12	1530.00	192.37	0.19	7953.42	9.00	90.85	1.70	7953.42	0.11
		2-4	12.00	345.40	174.28	148.81	147.71	1100.00	196.59	0.20	5595.40	12.00	75.71	2.04	5595.40	0.10
		2-5	15.00	362.73	170.86	150.49	149.85	640.00	212.24	0.21	3015.45	15.00	75.71	2.23	3015.45	0.06
		2-6	18.00	363.51	174.37	149.14	148.14	1000.00	214.37	0.21	4664.83	18.00	75.71	2.38	4664.83	0.09
		2-7	21.00	361.80	170.40	150.72	150.37	350.00	211.08	0.21	1658.14	21.00	181.70	2.05	1658.14	0.03
										AVG =	**5162.97**	23.00	0.00	0.40	1658.14	0.01
4.06	in/hr	avg									5162.97			**Total Solids Lost:**		**0.45**
15-May-12		4-1	3.00	321.74	161.69	150.60	149.23	1370.00	171.14	0.17	8005.14	3.00	20.00	5.17	8005.14	0.01
		4-2	6.00	345.05	160.19	150.29	149.26	1030.00	194.76	0.19	5288.56	6.00	17.00	9.75	5288.56	0.43
		4-3	9.00	354.96	173.85	150.15	148.67	1480.00	204.81	0.20	7226.21	9.00	16.00	11.14	7226.21	0.67
		4-4	12.00	350.55	157.19	150.15	149.51	640.00	200.40	0.20	3193.61	12.00	15.00	11.37	3193.61	0.30
		4-5	15.00	341.69	158.73	148.12	147.14	980.00	193.57	0.19	5062.77	15.00	15.00	12.00	5062.77	0.51
		4-6	18.00	354.25	162.82	151.52	150.82	700.00	202.73	0.20	3452.87	18.00	14.00	12.42	3452.87	0.36
		4-7	21.00	359.00	154.44	149.77	148.61	1160.00	209.23	0.21	5544.14	21.00	22.00	11.90	5544.14	0.55
										AVG =	**5396.19**	24.00	0.00	2.14	5544.14	0.10
6.06	in/hr	avg									5396.19			**Total Solids Lost:**		**2.92**
15-May-12		6-1	3.00	344.98	157.99	150.79	149.92	870.00	194.19	0.19	4480.15	3.00	10.00	17.50	4480.15	0.65
		6-2	6.00	353.39	158.11	151.74	151.24	500.00	201.65	0.20	2479.54	6.00	9.00	21.22	2479.54	0.44
		6-3	9.00	333.47	165.80	151.42	150.27	1150.00	182.05	0.18	6316.95	9.00	8.00	22.06	6316.95	1.16
		6-4	12.00	327.54	155.62	148.31	147.47	840.00	179.23	0.18	4686.72	12.00	8.00	22.50	4686.72	0.88
		6-5	15.00	344.62	159.74	148.54	147.50	1040.00	196.08	0.20	5303.96	15.00	8.00	22.50	5303.96	1.00
		6-6	18.00	336.05	156.75	151.56	151.52	40.00	184.49	0.18	216.81	18.00	7.00	25.14	216.81	0.05
		6-7	21.00	331.47	160.16	151.27	150.24	1030.00	180.20	0.18	5715.87	21.00	20.00	21.58	5715.87	1.03
										AVG =	**4171.43**	30.00	0.00	4.29	5715.87	0.20
											4171.43			**Total Solids Lost:**		**5.41**

16-May-12

Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.28 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	363	0.33	0.33	0.33	
2-2	2.00	363	0.17	0.17	0.50	
2-3	3.00	363	0.17	0.17	0.66	
2-4	4.00	348	0.17	0.17	0.83	
2-5	5.00	348	0.17	0.17	1.00	
2-6	6.00	303	0.18	0.18	1.19	
2-7	7.00	303	0.20	0.20	1.38	
2-8	8.00	273	0.21	0.21	1.59	
2-9	9.00	273	0.22	0.22	1.81	
2-10	10.00	273	0.22	0.22	2.03	
2-11	11.00	212	0.25	0.25	2.28	
2-12	12.00	212	0.28	0.28	2.56	
2-13	13.00	197	0.29	0.29	2.86	
2-14	14.00	182	0.32	0.32	3.17	
2-15	15.00	136	0.38	0.38	3.55	
2-16	16.00	121	0.47	0.47	4.02	
2-17	17.00	106	0.53	0.53	4.55	
2-18	18.00	91	0.61	0.61	5.16	
2-19	19.00	76	0.72	0.72	5.88	
2-20	20.00	76	0.79	0.79	6.67	
2-21	21.00	151	0.53	0.53	7.20	
2-end	23.00	0	0.40	0.40	7.59	
					7.59	**Total Collected Runoff (approx)**
4.07 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	42	2.86	2.86	2.86	
4-2	2	27	1.74	1.74	4.60	
4-3	3	23	2.40	2.40	7.00	
4-4	4	22	2.67	2.67	9.66	
4-5	5	28	2.40	2.40	12.06	
4-6	6	18	2.61	2.61	14.67	
4-7	7	16	3.53	3.53	18.20	
4-8	8	16	3.75	3.75	21.95	
4-9	9	16	3.75	3.75	25.70	
4-10	10	16	3.75	3.75	29.45	
4-11	11	15	3.87	3.87	33.32	
4-12	12	15	4.00	4.00	37.32	
4-13	13	15	4.00	4.00	41.32	
4-14	14	15	4.00	4.00	45.32	
4-15	15	14	4.14	4.14	49.45	
4-16	16	15	4.14	4.14	53.59	
4-17	17	15	4.00	4.00	57.59	
4-18	18	14	4.14	4.14	61.73	
4-19	19	14	4.29	4.29	66.01	
4-20	20	14	4.29	4.29	70.30	
4-21	21	20	3.53	3.53	73.83	
4-end	25.00	0	2.14	2.14	75.97	
					75.97	**Total Collected Runoff (approx)**
6.06 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	13	9.23	9.23	9.23	
6-2	2	10	5.22	5.22	14.45	
6-3	3	9	6.32	6.32	20.76	
6-4	4	9	6.67	6.67	27.43	
6-5	5	9	6.67	6.67	34.09	
6-6	6	9	6.67	6.67	40.76	
6-7	7	9	6.67	6.67	47.43	
6-8	8	9	6.67	6.67	54.09	
6-9	9	9	6.67	6.67	60.76	
6-10	10	9	6.67	6.67	67.42	
6-11	11	9	6.67	6.67	74.09	
6-12	12	8	7.06	7.06	81.15	
6-13	13	8	7.50	7.50	88.65	
6-14	14	8	7.50	7.50	96.15	
6-15	15	8	7.50	7.50	103.64	
6-16	16	8	7.50	7.50	111.14	
6-17	17	8	7.50	7.50	118.64	
6-18	18	8	7.50	7.50	126.14	
6-19	19	8	7.50	7.50	133.64	
6-20	20	8	7.50	7.50	141.14	
6-21	21	16	5.00	5.00	146.14	
6-end	30.00	0	3.75	3.75	149.89	
					149.89	**Total Collected Runoff (approx)**

18-May-12

Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.03 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	394	0.30	0.30	0.30	
2-2	2.00	379	0.16	0.16	0.46	
2-3	3.00	333	0.17	0.17	0.63	
2-4	4.00	242	0.21	0.21	0.84	
2-5	5.00	167	0.29	0.29	1.13	
2-6	6.00	136	0.40	0.40	1.53	
2-7	7.00	106	0.50	0.50	2.02	
2-8	8.00	91	0.61	0.61	2.63	
2-9	9.00	91	0.66	0.66	3.29	
2-10	10.00	76	0.72	0.72	4.01	
2-11	11.00	76	0.79	0.79	4.81	
2-12	12.00	76	0.79	0.79	5.60	
2-13	13.00	76	0.79	0.79	6.39	
2-14	14.00	61	0.88	0.88	7.27	
2-15	15.00	61	0.99	0.99	8.26	
2-16	16.00	61	0.99	0.99	9.25	
2-17	17.00	61	0.99	0.99	10.24	
2-18	18.00	61	0.99	0.99	11.23	
2-19	19.00	61	0.99	0.99	12.22	
2-20	20.00	61	0.99	0.99	13.22	
2-21	21.00	182	0.50	0.50	13.71	
2-end	23.00	0	0.50	0.50	14.21	
					14.21	**Total Collected Runoff (approx)**
3.98 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	121	0.99	0.99	0.99	
4-2	2	25	0.82	0.82	1.81	
4-3	3	22	2.55	2.55	4.36	
4-4	4	18	3.00	3.00	7.36	
4-5	5	16	3.53	3.53	10.89	
4-6	6	15	3.87	3.87	14.76	
4-7	7	16	3.87	3.87	18.63	
4-8	8	16	3.75	3.75	22.38	
4-9	9	15	3.87	3.87	26.25	
4-10	10	15	4.00	4.00	30.25	
4-11	11	14	4.14	4.14	34.39	
4-12	12	14	4.29	4.29	38.68	
4-13	13	14	4.29	4.29	42.96	
4-14	14	12	4.61	4.61	47.58	
4-15	15	12	5.00	5.00	52.58	
4-16	16	12	5.00	5.00	57.58	
4-17	17	12	5.00	5.00	62.58	
4-18	18	12	5.00	5.00	67.57	
4-19	19	12	5.00	5.00	72.57	
4-20	20	12	5.00	5.00	77.57	
4-21	21	25	3.24	3.24	80.82	
4-end	25	0	2.50	2.50	83.32	
					83.32	**Total Collected Runoff (approx)**
6.04 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	30	4.00	4.00	4.00	
6-2	2	20	2.40	2.40	6.40	
6-3	3	12	3.75	3.75	10.15	
6-4	4	12	5.00	5.00	15.15	
6-5	5	10	5.45	5.45	20.60	
6-6	6	10	6.00	6.00	26.60	
6-7	7	9	6.32	6.32	32.92	
6-8	8	8	7.06	7.06	39.97	
6-9	9	8	7.50	7.50	47.47	
6-10	10	8	7.50	7.50	54.97	
6-11	11	8	7.50	7.50	62.47	
6-12	12	7	8.00	8.00	70.47	
6-13	13	7	8.57	8.57	79.04	
6-14	14	7	8.57	8.57	87.61	
6-15	15	7	8.57	8.57	96.18	
6-16	16	7	8.57	8.57	104.75	
6-17	17	6	9.23	9.23	113.98	
6-18	18	6	10.00	10.00	123.98	
6-19	19	6	10.00	10.00	133.98	
6-20	20	6	10.00	10.00	143.98	
6-21	21	13	6.32	6.32	150.30	
6-end	30	0	5.00	5.00	155.29	
					155.29	**Total Collected Runoff (approx)**

15-May-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.28 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	666	0.18	0.18	0.18	
2-2	2.00	379	0.11	0.11	0.29	
2-3	3.00	288	0.18	0.18	0.48	
2-4	4.00	212	0.24	0.24	0.72	
2-5	5.00	182	0.30	0.30	1.02	
2-6	6.00	121	0.40	0.40	1.42	
2-7	7.00	106	0.53	0.53	1.94	
2-8	8.00	106	0.57	0.57	2.51	
2-9	9.00	91	0.61	0.61	3.12	
2-10	10.00	91	0.66	0.66	3.78	
2-11	11.00	91	0.66	0.66	4.44	
2-12	12.00	76	0.72	0.72	5.16	
2-13	13.00	91	0.72	0.72	5.88	
2-14	14.00	76	0.72	0.72	6.60	
2-15	15.00	76	0.79	0.79	7.40	
2-16	16.00	76	0.79	0.79	8.19	
2-17	17.00	76	0.79	0.79	8.98	
2-18	18.00	76	0.79	0.79	9.77	
2-19	19.00	76	0.79	0.79	10.57	
2-20	20.00	76	0.79	0.79	11.36	
2-21	21.00	182	0.47	0.47	11.82	
2-end	23.00	0	0.40	0.40	12.22	
					12.22	**Total Collected Runoff (approx)**
4.06 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	106	1.13	1.13	1.13	
4-2	2	19	0.96	0.96	2.09	
4-3	3	20	3.08	3.08	5.17	
4-4	4	19	3.08	3.08	8.25	
4-5	5	18	3.24	3.24	11.49	
4-6	6	17	3.43	3.43	14.92	
4-7	7	16	3.64	3.64	18.55	
4-8	8	16	3.75	3.75	22.30	
4-9	9	16	3.75	3.75	26.05	
4-10	10	16	3.75	3.75	29.80	
4-11	11	16	3.75	3.75	33.55	
4-12	12	15	3.87	3.87	37.42	
4-13	13	15	4.00	4.00	41.42	
4-14	14	15	4.00	4.00	45.42	
4-15	15	15	4.00	4.00	49.42	
4-16	16	15	4.00	4.00	53.42	
4-17	17	14	4.14	4.14	57.56	
4-18	18	14	4.29	4.29	61.84	
4-19	19	14	4.29	4.29	66.13	
4-20	20	14	4.29	4.29	70.41	
4-21	21	22	3.33	3.33	73.75	
4-end	24	0	2.14	2.14	75.89	
					75.89	**Total Collected Runoff (approx)**
6.06 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	15	8.00	8.00	8.00	
6-2	2	13	4.29	4.29	12.28	
6-3	3	10	5.22	5.22	17.50	
6-4	4	8	6.67	6.67	24.17	
6-5	5	8	7.50	7.50	31.67	
6-6	6	9	7.06	7.06	38.72	
6-7	7	8	7.06	7.06	45.78	
6-8	8	8	7.50	7.50	53.28	
6-9	9	8	7.50	7.50	60.78	
6-10	10	8	7.50	7.50	68.28	
6-11	11	8	7.50	7.50	75.78	
6-12	12	8	7.50	7.50	83.28	
6-13	13	8	7.50	7.50	90.78	
6-14	14	8	7.50	7.50	98.28	
6-15	15	8	7.50	7.50	105.78	
6-16	16	7	8.00	8.00	113.78	
6-17	17	7	8.57	8.57	122.35	
6-18	18	7	8.57	8.57	130.92	
6-19	19	7	8.57	8.57	139.49	
6-20	20	7	8.57	8.57	148.06	
6-21	21	20	4.44	4.44	152.50	
6-end	30	0	4.29	4.29	156.79	
					156.79	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	16-May-12	18-May-12	15-May-12
Avg Moisture Content:	**21.68%**	**21.43%**	**22.29%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	72.55	251.71	250.56
Wt. Of cup + dry soil, g	64.68	245.78	244.34
Wt. Of cup, g	28.51	217.15	217.11
Wt. Of dry soil, g	36.17	28.63	27.23
Wt. Of water, g	7.87	5.93	6.22
Water Content, w%	21.8%	20.7%	22.8%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	68.92	262.12	258.31
Wt. Of cup + dry soil, g	61.77	253.86	250.86
Wt. Of cup, g	28.51	216.8	216.77
Wt. Of dry soil, g	33.26	37.06	34.09
Wt. Of water, g	7.15	8.26	7.45
Water Content, w%	21.5%	22.3%	21.9%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	63.07	261.99	255.46
Wt. Of cup + dry soil, g	56.89	254.02	248.42
Wt. Of cup, g	28.51	216.58	216.65
Wt. Of dry soil, g	28.38	37.44	31.77
Wt. Of water, g	6.18	7.97	7.04
Water Content, w%	21.8%	21.3%	22.2%

Soil Loss Data

Slope No.	1	2	3
Test Date:	16-May-12	18-May-12	15-May-12
Total Soil Loss	**7.80**	**9.60**	**8.31**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		136.2	272.4	186.14
Sub-Sample	Wt. Of cup + wet soil, g	136.2	272.4	186.14
	Wt. Of cup + dry soil, g	136.2	272.4	186.14
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	136.2	272.4	186.14
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.300	0.600	0.410

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		1225.8	1725.2	1225.8
Sub-Sample	Wt. Of cup + wet soil, g	1225.8	1725.2	1225.8
	Wt. Of cup + dry soil, g	1225.8	1725.2	1225.8
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	1225.8	1725.2	1225.8
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		2.700	3.800	2.700

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		2179.2	2360.8	2360.8
Sub-Sample	Wt. Of cup + wet soil, g	2179.2	2360.8	2360.8
	Wt. Of cup + dry soil, g	2179.2	2360.8	2360.8
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	2179.2	2360.8	2360.8
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		4.800	5.200	5.200

TYPICAL TESTING PICTURES



Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

Note: The testi

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 15-May-12 | Start Rain: 9:13 AM | End Rain: 9:33 AM

Sampling interval: 0:03 | End Runoff: 9:36 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: GASF-A | Descr:. Hanes Type A Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

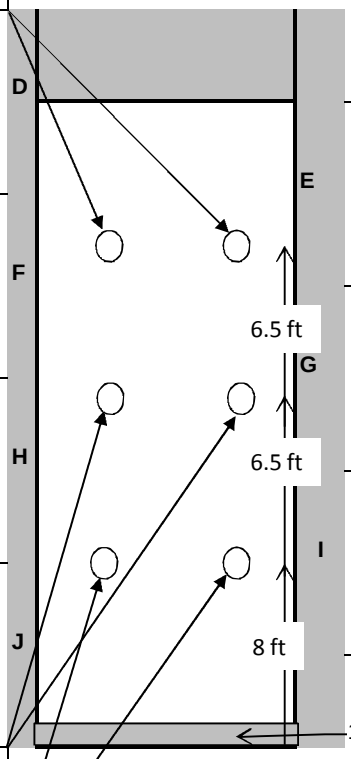
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.4%

d = 19 15 mm

i = 2.24 1.77 in/hr



x						x
X	P =	9	psi	**D**		x
x						x
x				**E**	P = 9 psi	**X**
x						x
X	P =	9	psi	**F**		x
x						x
x				**G**	P = 9 psi	x
x						**X**
x	P =	9	psi	**H**		x
X						x
x				**I**	P = 9 psi	x
x						**X**
x	P =	9	psi	**J**		x
X						
x						

d = 20 18 mm

i = 2.36 2.13 in/hr

x x **X** x

P = 9 psi

Temp. 67 deg

Hum. 87 %

w_{c2} = 23.5%

d = 19 16 mm

i = 2.24 1.89 in/hr

w_{c3} = 23.3%

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.11** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:16	X	X
9:19	X	X
9:22	X	X
9:25	X	X
9:28	X	X
9:31	X	X
9:34	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	34
2	250	23
3	250	12
4	250	9
5	250	8
6	250	5
7	250	5
8	250	5
9	250	5
10	250	5
11	250	5
12	250	5
13	250	5
14	250	5
15	250	4
16	250	4
17	250	4
18	250	4
19	250	4
20	250	4
21	250	8
23	250	0

NOTES:

Wind: 0 mph. Direction: N

Approx 15 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 15-May-12 | Start Rain: 9:42 AM | End Rain: 10:02 AM

Sampling interval: 0:03 | End Runoff: 10:05 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: GASF-A | Descr:. Hanes Type A Silt Fence

Lot #: | Posts: Steel | Spacing: 6-ft

TOP OF SLOPE

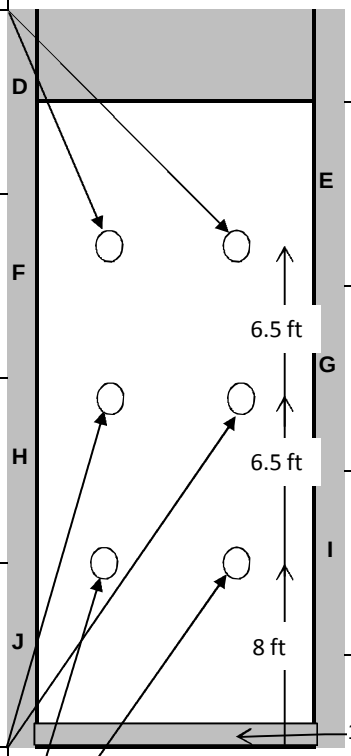
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.4%

d = 37 34 mm

i = 4.37 4.02 in/hr



x						x	
X	P =	9	psi	D		x	
x						x	
x					E	P = 9 psi	X
x						x	
X	P =	9	psi	F		x	
x						x	
x					G	P = 9 psi	x
x							X
x	P =	9	psi	H		x	
X						x	
x					I	P = 9 psi	x
x							X
x	P =	9	psi	J		x	
X							
x							

d = 34 31 mm

i = 4.02 3.66 in/hr

w_{c2} = 23.5%

d = 35 32 mm

i = 4.13 3.78 in/hr

w_{c3} = 23.3%

x x **X** x

P = 9 psi

Temp. 68 deg

Hum. 86 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:45	X	X
9:48	X	X
9:51	X	X
9:54	X	X
9:57	X	X
10:00	X	X
10:03	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	53
2	3785	32
3	3785	23
4	3785	20
5	3785	20
6	3785	19
7	3785	18
8	3785	18
9	3785	18
10	3785	18
11	3785	18
12	3785	18
13	3785	18
14	3785	18
15	3785	18
16	3785	18
17	3785	17
18	3785	17
19	3785	17
20	3785	17
21	3785	35
23	3785	0

NOTES:

Wind: 1 mph. Direction: N

Approx 65 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date:	16-May-12	Start Rain:	7:00 AM	End Rain:	7:20 AM
		Sampling interval:	0:03	End Runoff:	7:30 AM
		Rain Time (min):	20.00	Test Time (min):	30.00
Product:	GASF-A	Descr:.	Hanes Type A Silt Fence		
Lot #:		Posts:	Steel	Spacing:	6-ft

TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.4%

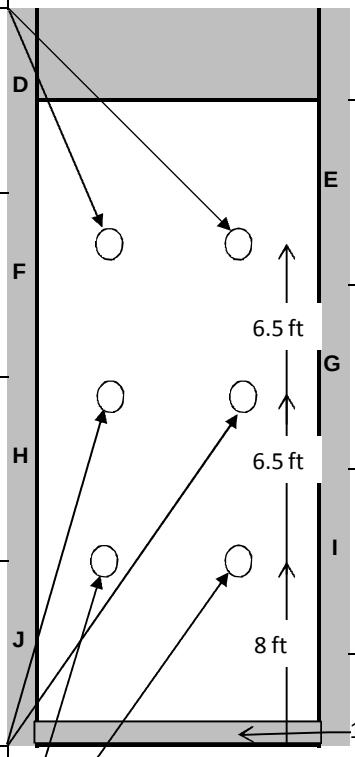
d =	49	50	mm
i =	5.79	5.91	in/hr

x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
x P = 9 psi **J**
X
x



x
x
x
E P = 9 psi **X**
x
x
x
G P = 9 psi x
X
x
x
I P = 9 psi x
X
x

x x **X** x

P = 9 psi

Temp. 69 deg

Hum. 83 %

d =	50	55	mm
i =	5.91	6.50	in/hr

w_{c2} = 23.5%

d =	49	54	mm
i =	5.79	6.38	in/hr

w_{c3} = 23.3%

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.04** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:03	X	X
7:06	X	X
7:09	X	X
7:12	X	X
7:15	X	X
7:18	X	X
7:21	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	50
2	3785	45
3	3785	33
4	3785	16
5	3785	10
6	3785	10
7	3785	10
8	3785	10
9	3785	10
10	3785	10
11	3785	9
12	3785	8
13	3785	8
14	3785	8
15	3785	8
16	3785	8
17	3785	7
18	3785	7
19	3785	8
20	3785	8
21	3785	21
30	3785	0

NOTES:
Wind: 0-1 mph. Direction: N
Approx 130 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date: 23-May-12 | Start Rain: 7:09 AM | End Rain: 7:29 AM

Sampling interval: 0:03 | End Runoff: 7:31 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: GASF-A | Descr:. Hanes Type A Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

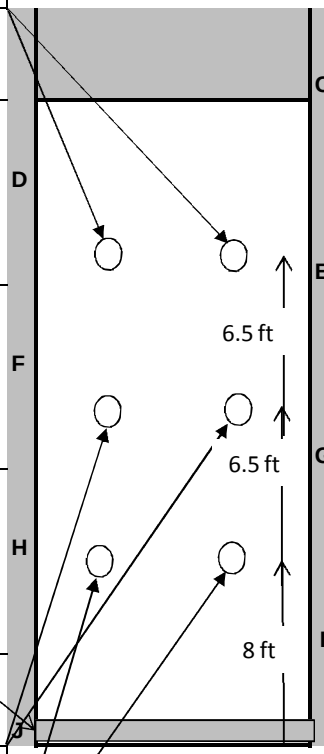
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.4%

d = 21 19 mm

i = 2.48 2.24 in/hr



x					x
			C	P = 9 psi	X
x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
					X
		J			x

d = 20 18 mm

i = 2.36 2.13 in/hr

w_{c2} = 23.5%

d = 19 19 mm

i = 2.24 2.24 in/hr

w_{c3} = 23.3%

x x X x

P = 9 psi

Temp. 62 deg

Hum. 95 %

Average Depth: 19 mm

Avg Rainfall Intensity: 2.28 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:12	X	X
7:15	X	X
7:18	X	X
7:21	X	X
7:24	X	X
7:27	X	X
7:30	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	24
2	250	22
3	250	20
4	250	20
5	250	21
6	250	15
7	250	13
8	250	10
9	250	9
10	250	8
11	250	8
12	250	7
13	250	6
14	250	5
15	250	5
16	250	5
17	250	5
18	250	4
19	250	4
20	250	4
21	250	12
22	250	0

NOTES:

Wind: 0 mph. Direction: E

Approx 10 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 23-May-12 | Start Rain: 7:37 AM | End Rain: 7:57 AM

Sampling interval: 0:03 | End Runoff: 8:01 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: GASF-A | Descr:. Hanes Type A Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

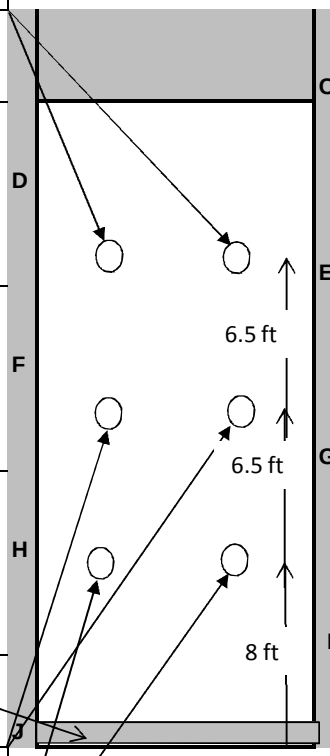
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.4%

d = 32 34 mm

i = 3.78 4.02 in/hr



				C	P = 9 psi	X
x				D	P = 9 psi	X
x				E	P = 9 psi	X
x				F	P = 9 psi	X
x				G	P = 9 psi	x
x				H	P = 9 psi	x
x				I	P = 9 psi	x
x				J		x

d = 35 35 mm

i = 4.13 4.13 in/hr

w_{c2} = 23.5%

d = 35 33 mm

i = 4.13 3.90 in/hr

w_{c3} = 23.3%

x x **X** x

P = 9 psi

Temp. 62 deg

Hum. 95 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.02** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:40	X	X
7:43	X	X
7:46	X	X
7:49	X	X
7:52	X	X
7:55	X	X
7:58	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	48
2	3785	44
3	3785	35
4	3785	24
5	3785	20
6	3785	21
7	3785	19
8	3785	19
9	3785	18
10	3785	18
11	3785	17
12	3785	17
13	3785	16
14	3785	16
15	3785	16
16	3785	16
17	3785	16
18	3785	16
19	3785	16
20	3785	16
21	3785	33
24	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 65 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date: 23-May-12 | Start Rain: 8:06 AM | End Rain: 8:26 AM

Sampling interval: 0:03 | End Runoff: 8:36 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: GASF-A | Descr:. Hanes Type A Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

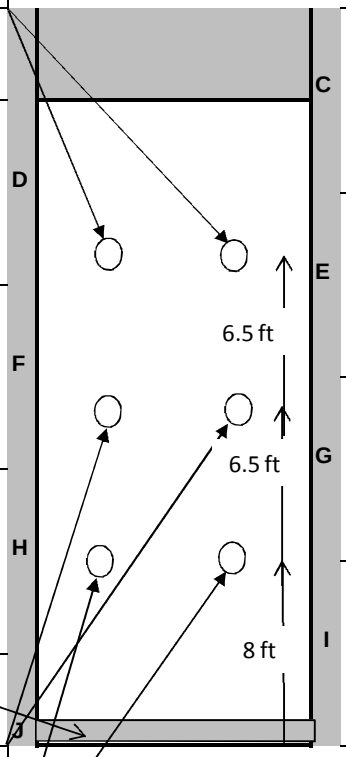
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.4%

d = 54 51 mm

i = 6.38 6.02 in/hr



			C	P = 9 psi	X
x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
					X
		J			x

d = 54 52 mm

i = 6.38 6.14 in/hr

x x **X** x

P = 9 psi | Temp. 62 deg

Hum. 95 %

w_{c2} = 23.5%

d = 50 50 mm

i = 5.91 5.91 in/hr

Average Depth: 52 mm

w_{c3} = 23.3%

Avg Rainfall Intensity: 6.12 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:09	X	X
8:12	X	X
8:15	X	X
8:18	X	X
8:21	X	X
8:24	X	X
8:27	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	25
2	3785	18
3	3785	16
4	3785	13
5	3785	11
6	3785	10
7	3785	10
8	3785	10
9	3785	10
10	3785	10
11	3785	10
12	3785	10
13	3785	9
14	3785	9
15	3785	9
16	3785	9
17	3785	9
18	3785	9
19	3785	9
20	3785	8
21	3785	13
30	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 130 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date: 24-May-12 | Start Rain: 6:58 AM | End Rain: 7:18 AM

Sampling interval: 0:03 | End Runoff: 7:20 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: GASF-A | Descr:. Hanes Type A Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

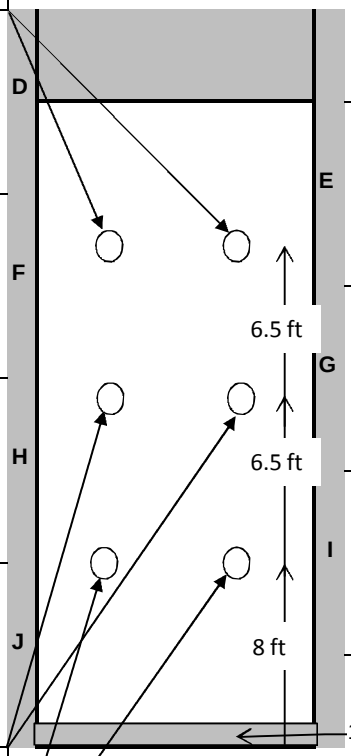
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.4%

d = 20 19 mm

i = 2.36 2.24 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 19 21 mm

i = 2.24 2.48 in/hr

w_{c2} = 23.5%

d = 19 20 mm

i = 2.24 2.36 in/hr

w_{c3} = 23.3%

x x **X** x

P = 9 psi

Temp. 65 deg

Hum. 85 %

Average Depth: 20 mm

Avg Rainfall Intensity: 2.32 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:01	X	X
7:04	X	X
7:07	X	X
7:10	X	X
7:13	X	X
7:16	X	X
7:19	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	39
2	250	34
3	250	33
4	250	32
5	250	32
6	250	32
7	250	32
8	250	28
9	250	28
10	250	25
11	250	25
12	250	25
13	250	11
14	250	7
15	250	5
16	250	4
17	250	3
18	250	3
19	250	3
20	250	3
21	250	12
22	250	0

NOTES: Test on Slope G1

Wind: 0-2 mph. Direction: NE

Approx 10 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date:	24-May-12	Start Rain:	7:27 AM	End Rain:	7:47 AM
		Sampling interval:	0:03	End Runoff:	7:50 AM
		Rain Time (min):	20.00	Test Time (min):	23.00
Product:	GASF-A	Descr:.	Hanes Type A Silt Fence		
Lot #:		Posts:	Wood	Spacing:	6-ft

TOP OF SLOPE

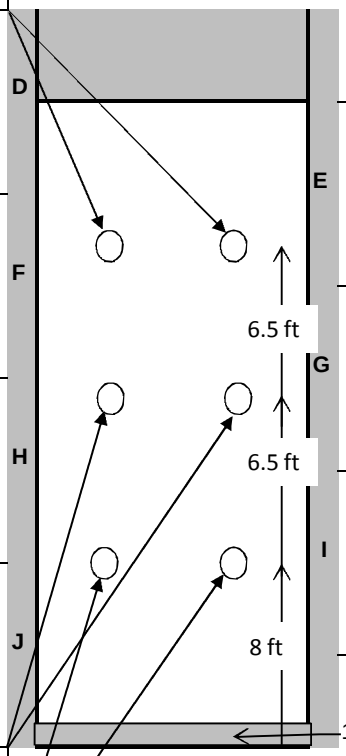
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.4%

d = 35 32 mm

i = 4.13 3.78 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 33 37 mm

i = 3.90 4.37 in/hr

w_{c2} = 23.5%

d = 33 37 mm

i = 3.90 4.37 in/hr

w_{c3} = 23.3%

x x **X** x

P = 9 psi

Temp. 65 deg

Hum. 91 %

Average Depth: **35** **mm**

Avg Rainfall Intensity: **4.07** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:30	X	X
7:33	X	X
7:36	X	X
7:39	X	X
7:42	X	X
7:45	X	X
7:48	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	47
2	3785	35
3	3785	29
4	3785	22
5	3785	20
6	3785	20
7	3785	19
8	3785	20
9	3785	19
10	3785	18
11	3785	18
12	3785	17
13	3785	17
14	3785	17
15	3785	17
16	3785	17
17	3785	17
18	3785	17
19	3785	17
20	3785	17
21	3785	22
23	3785	0

NOTES:
Wind: 0 mph. Direction: E
Approx 70 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 24-May-12 | Start Rain: 7:58 AM | End Rain: 8:18 AM

Sampling interval: 0:03 | End Runoff: 8:28 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: GASF-A | Descr:. Hanes Type A Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

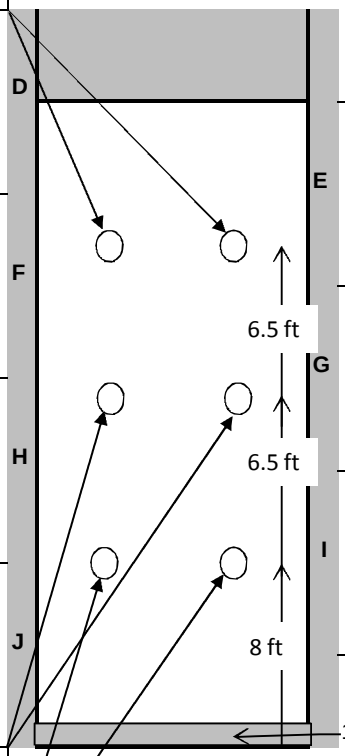
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.4%

d = 53 52 mm

i = 6.26 6.14 in/hr



x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
x					X
x	P = 9 psi	J			x
X					
x					

d = 53 50 mm

i = 6.26 5.91 in/hr

w_{c2} = 23.5%

d = 51 53 mm

i = 6.02 6.26 in/hr

w_{c3} = 23.3%

x x **X** x

P = 9 psi

Temp. 67 deg

Hum. 89 %

Average Depth: **52** **mm**

Avg Rainfall Intensity: **6.14** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:01	X	X
8:04	X	X
8:07	X	X
8:10	X	X
8:13	X	X
8:16	X	X
8:19	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	40
2	3785	33
3	3785	20
4	3785	13
5	3785	11
6	3785	10
7	3785	9
8	3785	9
9	3785	9
10	3785	9
11	3785	9
12	3785	9
13	3785	9
14	3785	8
15	3785	8
16	3785	8
17	3785	8
18	3785	8
19	3785	8
20	3785	8
21	3785	20
30	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 130 gallons collected.

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	189
2	20	29
3	20	

GASF-A Hanes Type A Silt Fence

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	7505	2-1	3.00	384	2-1	3.00	
2-2	6.00	7948	2-2	6.00	804	2-2	6.00	
2-3	9.00	3178	2-3	9.00	2188	2-3	9.00	
2-4	12.00	2851	2-4	12.00	4761	2-4	12.00	
2-5	15.00	2252	2-5	15.00	8397	2-5	15.00	
2-6	18.00	2348	2-6	18.00	6212	2-6	18.00	
2-7	21.00	3318	2-7	21.00	2161	2-7	21.00	
avg		**4200**	avg		**3558**	avg		**#DIV/0!**
4-1	3.00	3668	4-1	2.00	4436	4-1	2.00	
4-2	6.00	3613	4-2	4.00	3349	4-2	4.00	
4-3	9.00	2210	4-3	6.00	2943	4-3	6.00	
4-4	12.00	1620	4-4	8.00	2791	4-4	8.00	
4-5	15.00	2435	4-5	10.00	2710	4-5	10.00	
4-6	18.00	1967	4-6	12.00	2370	4-6	12.00	
4-7	21.00	970	4-7	21.00	1695	4-7	21.00	
avg		**2355**	avg		**2899**	avg		**#DIV/0!**
6-1	3.00	3616	6-1	3.00	3155	6-1	3.00	
6-2	6.00	3495	6-2	6.00	2764	6-2	6.00	
6-3	9.00	1928	6-3	9.00	2144	6-3	9.00	
6-4	12.00	2345	6-4	12.00	2182	6-4	12.00	
6-5	15.00	2176	6-5	15.00	1993	6-5	15.00	
6-6	18.00	1845	6-6	18.00	2156	6-6	18.00	
6-7	21.00	1378	6-7	21.00	1497	6-7	21.00	
avg		**2398**	avg		**2270**	avg		**#DIV/0!**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.11	in/hr	avg														
15-May-12		2-1	3.00	348.18	165.08	152.34	150.50	1840.00	195.84	0.20	9395.42	3.00	181.70	0.60	9395.42	0.05
		2-2	6.00	361.15	171.35	151.88	150.86	1020.00	209.27	0.21	4874.09	6.00	75.71	1.45	4874.09	0.06
		2-3	9.00	364.52	174.58	151.41	150.84	570.00	213.11	0.21	2674.68	9.00	75.71	2.38	2674.68	0.05
		2-4	12.00	348.51	156.05	149.60	149.26	340.00	198.91	0.20	1709.32	12.00	75.71	2.38	1709.32	0.03
		2-5	15.00	318.66	158.20	150.71	150.57	140.00	167.95	0.17	833.58	15.00	60.57	2.47	833.58	0.02
		2-6	18.00	328.60	164.84	148.61	147.63	980.00	179.99	0.18	5444.75	18.00	60.57	2.97	5444.75	0.14
		2-7	21.00	308.32	161.26	150.72	150.66	60.00	157.60	0.16	380.71	21.00	121.13	2.64	380.71	0.01
										AVG =	**3616.08**	23.00	0	0.50	380.71	0.00
4.00	in/hr	avg									3616.08			**Total Solids Lost:**		**0.36**
15-May-12		4-1	3.00	331.65	155.91	150.31	149.77	540.00	181.34	0.18	2977.83	3.00	23.00	5.86	2977.83	0.15
		4-2	6.00	311.58	158.10	152.33	151.81	520.00	159.25	0.16	3265.31	6.00	19.00	8.87	3265.31	0.24
		4-3	9.00	353.45	153.97	148.77	147.71	1060.00	204.68	0.20	5178.82	9.00	18.00	9.91	5178.82	0.43
		4-4	12.00	331.23	158.57	151.41	150.56	850.00	179.82	0.18	4726.95	12.00	18.00	10.00	4726.95	0.39
		4-5	15.00	318.19	163.08	151.19	150.58	610.00	167.00	0.17	3652.69	15.00	18.00	10.00	3652.69	0.30
		4-6	18.00	336.65	166.40	151.73	150.77	960.00	184.92	0.18	5191.43	18.00	17.00	10.29	5191.43	0.45
		4-7	21.00	343.10	158.77	147.05	146.35	700.00	196.05	0.20	3570.52	21.00	35.00	9.37	3570.52	0.28
										AVG =	**4080.51**	23.00	0.00	1.76	3570.52	0.05
6.04	in/hr	avg									4080.51			**Total Solids Lost:**		**2.29**
16-May-12		6-1	3.00	359.66	161.34	151.04	150.38	660.00	208.62	0.21	3163.65	3.00	33.00	5.20	3163.65	0.14
		6-2	6.00	317.49	156.38	151.13	150.45	680.00	166.36	0.17	4087.52	6.00	10.00	13.06	4087.52	0.45
		6-3	9.00	320.65	157.65	150.47	149.83	640.00	170.18	0.17	3760.72	9.00	10.00	18.00	3760.72	0.56
		6-4	12.00	337.45	164.40	149.72	149.06	660.00	187.73	0.19	3515.69	12.00	8.00	19.37	3515.69	0.57
		6-5	15.00	319.92	170.29	150.26	149.67	590.00	169.66	0.17	3477.54	15.00	8.00	22.50	3477.54	0.65
		6-6	18.00	342.58	179.93	151.04	150.06	980.00	191.54	0.19	5116.42	18.00	7.00	24.07	5116.42	1.03
		6-7	21.00	345.01	166.65	150.24	149.44	800.00	194.77	0.19	4107.41	21.00	21.00	19.64	4107.41	0.67
										AVG =	**3889.85**	30.00	0.00	3.75	4107.41	0.13
											3889.85			**Total Solids Lost:**		**4.20**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.28	in/hr	avg														
23-May-12		2-1	3.00	340.05	148.52	148.52	148.52	0.00	191.53	0.19	0.00	3.00	302.83	0.69	0.00	0.00
		2-2	6.00	355.98	152.82	152.82	152.82	0.00	203.16	0.20	0.00	6.00	227.12	0.61	0.00	0.00
		2-3	9.00	352.35	169.05	151.38	150.88	500.00	200.97	0.20	2487.93	9.00	136.27	1.04	2487.93	0.02
		2-4	12.00	363.10	168.35	147.46	147.16	300.00	215.64	0.22	1391.21	12.00	105.99	1.49	1391.21	0.02
		2-5	15.00	376.99	174.36	151.08	150.27	810.00	225.91	0.23	3585.50	15.00	75.71	2.12	3585.50	0.06
		2-6	18.00	374.99	171.87	148.68	147.63	1050.00	226.31	0.23	4639.65	18.00	60.57	2.47	4639.65	0.10
		2-7	21.00	366.15	166.41	151.79	150.66	1130.00	214.36	0.21	5271.51	21.00	181.70	2.48	5271.51	0.11
										AVG =	**2482.26**	22.00	0.00	0.50	5271.51	0.02
4.02	in/hr	avg									2482.26			**Total Solids Lost:**		**0.33**
23-May-12		4-1	3.00	314.11	169.70	147.84	147.23	610.00	166.27	0.17	3668.73	3.00	35.00	5.32	3668.73	0.16
		4-2	6.00	354.14	170.70	152.12	151.29	830.00	202.02	0.20	4108.50	6.00	21.00	7.69	4108.50	0.26
		4-3	9.00	351.52	175.12	148.85	147.91	940.00	202.67	0.20	4638.08	9.00	18.00	9.40	4638.08	0.36
		4-4	12.00	348.48	162.59	151.13	150.23	900.00	197.35	0.20	4560.43	12.00	17.00	10.29	4560.43	0.39
		4-5	15.00	342.53	165.99	151.31	150.43	880.00	191.22	0.19	4602.03	15.00	16.00	11.14	4602.03	0.43
		4-6	18.00	351.85	165.73	151.66	150.77	890.00	200.19	0.20	4445.78	18.00	16.00	11.25	4445.78	0.42
		4-7	21.00	339.79	160.76	147.65	146.75	900.00	192.14	0.19	4684.08	21.00	33.00	9.95	4684.08	0.39
										AVG =	**4386.80**	24.00	0.00	1.87	4684.08	0.07
6.12	in/hr	avg									4386.80			**Total Solids Lost:**		**2.49**
23-May-12		6-1	3.00	338.15	161.37	151.13	150.35	780.00	187.02	0.19	4170.68	3.00	16.00	11.12	4170.68	0.39
		6-2	6.00	333.43	165.45	148.32	147.45	870.00	185.11	0.19	4699.91	6.00	10.00	14.85	4699.91	0.58
		6-3	9.00	328.63	167.72	150.32	149.53	790.00	178.31	0.18	4430.49	9.00	10.00	18.00	4430.49	0.67
		6-4	12.00	342.89	168.54	148.79	148.36	430.00	194.10	0.19	2215.35	12.00	10.00	18.00	2215.35	0.33
		6-5	15.00	338.62	166.74	150.07	149.17	900.00	188.55	0.19	4773.27	15.00	9.00	19.65	4773.27	0.78
		6-6	18.00	333.65	168.91	150.81	150.06	750.00	182.84	0.18	4101.95	18.00	9.00	20.00	4101.95	0.68
		6-7	21.00	358.05	169.33	149.28	148.44	840.00	208.77	0.21	4023.57	21.00	13.00	19.44	4023.57	0.65
										AVG =	**4059.32**	30.00	0.00	3.75	4023.57	0.13
											4059.32			**Total Solids Lost:**		**4.21**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.32	in/hr	avg														
24-May-12		2-1	3.00	336.51	151.41	151.41	151.41	0.00	185.10	0.19	0.00	3.00	499.67	0.43	0.00	0.00
		2-2	6.00	332.06	147.76	147.76	147.76	0.00	184.30	0.18	0.00	6.00	484.53	0.37	0.00	0.00
		2-3	9.00	334.61	150.12	150.12	150.12	0.00	184.49	0.18	0.00	9.00	423.97	0.40	0.00	0.00
		2-4	12.00	343.89	147.71	147.71	147.71	0.00	196.18	0.20	0.00	12.00	378.54	0.47	0.00	0.00
		2-5	15.00	339.12	163.01	148.43	147.39	1040.00	190.69	0.19	5453.88	15.00	75.71	1.32	5453.88	0.06
		2-6	18.00	360.85	198.60	149.72	148.18	1540.00	211.13	0.21	7294.08	18.00	45.42	3.33	7294.08	0.20
		2-7	21.00	349.61	160.40	151.38	150.28	1100.00	198.23	0.20	5549.11	21.00	181.70	3.17	5549.11	0.15
										AVG =	**2613.87**	22.00	0.00	0.66	5549.11	0.03
4.07	in/hr	avg									2613.87			**Total Solids Lost:**		**0.44**
24-May-12		4-1	3.00	350.94	176.92	150.92	150.72	200.00	200.02	0.20	999.90	3.00	29.00	5.89	999.90	0.03
		4-2	6.00	350.85	164.26	150.82	149.76	1060.00	200.03	0.20	5299.21	6.00	20.00	8.21	5299.21	0.36
		4-3	9.00	341.63	184.88	149.26	148.67	590.00	192.37	0.19	3067.01	9.00	19.00	9.23	3067.01	0.24
		4-4	12.00	356.61	165.02	151.55	150.51	1040.00	205.06	0.21	5071.69	12.00	17.00	10.00	5071.69	0.42
		4-5	15.00	353.14	162.79	147.65	147.14	510.00	205.49	0.21	2481.87	15.00	17.00	10.59	2481.87	0.22
		4-6	18.00	348.67	165.32	151.28	150.37	910.00	197.39	0.20	4610.16	18.00	17.00	10.59	4610.16	0.41
		4-7	21.00	366.57	168.04	150.05	148.61	1440.00	216.52	0.22	6650.66	21.00	22.00	10.13	6650.66	0.56
										AVG =	**4025.78**	23.00	0.00	1.76	6650.66	0.10
6.14	in/hr	avg									4025.78			**Total Solids Lost:**		**2.34**
24-May-12		6-1	3.00	310.48	167.49	150.48	149.92	560.00	160.00	0.16	3500.00	3.00	20.00	6.91	3500.00	0.20
		6-2	6.00	343.74	167.41	148.77	148.22	550.00	194.97	0.19	2820.95	6.00	10.00	14.35	2820.95	0.34
		6-3	9.00	356.68	168.55	151.75	150.97	780.00	204.93	0.20	3806.18	9.00	9.00	19.65	3806.18	0.62
		6-4	12.00	315.74	161.21	148.18	147.47	710.00	167.56	0.17	4237.29	12.00	9.00	20.00	4237.29	0.71
		6-5	15.00	351.64	165.98	148.32	147.50	820.00	203.32	0.20	4033.05	15.00	8.00	21.22	4033.05	0.71
		6-6	18.00	353.51	167.45	148.53	147.51	1020.00	204.98	0.20	4976.10	18.00	8.00	22.50	4976.10	0.93
		6-7	21.00	320.05	161.47	149.25	148.68	570.00	170.80	0.17	3337.24	21.00	20.00	19.28	3337.24	0.54
										AVG =	**3815.83**	30.00	0.00	3.75	3337.24	0.10
											3815.83			**Total Solids Lost:**		**4.16**

15-May-12

Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.11 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	515	0.23	0.23	0.23	
2-2	2.00	348	0.14	0.14	0.37	
2-3	3.00	182	0.23	0.23	0.60	
2-4	4.00	136	0.38	0.38	0.98	
2-5	5.00	121	0.47	0.47	1.44	
2-6	6.00	76	0.61	0.61	2.05	
2-7	7.00	76	0.79	0.79	2.84	
2-8	8.00	76	0.79	0.79	3.64	
2-9	9.00	76	0.79	0.79	4.43	
2-10	10.00	76	0.79	0.79	5.22	
2-11	11.00	76	0.79	0.79	6.01	
2-12	12.00	76	0.79	0.79	6.81	
2-13	13.00	76	0.79	0.79	7.60	
2-14	14.00	76	0.79	0.79	8.39	
2-15	15.00	61	0.88	0.88	9.27	
2-16	16.00	61	0.99	0.99	10.26	
2-17	17.00	61	0.99	0.99	11.25	
2-18	18.00	61	0.99	0.99	12.24	
2-19	19.00	61	0.99	0.99	13.24	
2-20	20.00	61	0.99	0.99	14.23	
2-21	21.00	121	0.66	0.66	14.89	
2-end	23.00	0	0.50	0.50	15.38	
					15.38	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	53	2.26	2.26	2.26	
4-2	2	32	1.41	1.41	3.68	
4-3	3	23	2.18	2.18	5.86	
4-4	4	20	2.79	2.79	8.65	
4-5	5	20	3.00	3.00	11.65	
4-6	6	19	3.08	3.08	14.72	
4-7	7	18	3.24	3.24	17.97	
4-8	8	18	3.33	3.33	21.30	
4-9	9	18	3.33	3.33	24.63	
4-10	10	18	3.33	3.33	27.97	
4-11	11	18	3.33	3.33	31.30	
4-12	12	18	3.33	3.33	34.63	
4-13	13	18	3.33	3.33	37.96	
4-14	14	18	3.33	3.33	41.30	
4-15	15	18	3.33	3.33	44.63	
4-16	16	18	3.33	3.33	47.96	
4-17	17	17	3.43	3.43	51.39	
4-18	18	17	3.53	3.53	54.92	
4-19	19	17	3.53	3.53	58.45	
4-20	20	17	3.53	3.53	61.98	
4-21	21	35	2.31	2.31	64.29	
4-end	23.00	0	1.76	1.76	66.05	
					66.05	**Total Collected Runoff (approx)**
6.04 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	50	2.40	2.40	2.40	
6-2	2	45	1.26	1.26	3.66	
6-3	3	33	1.54	1.54	5.20	
6-4	4	16	2.45	2.45	7.65	
6-5	5	10	4.61	4.61	12.26	
6-6	6	10	6.00	6.00	18.26	
6-7	7	10	6.00	6.00	24.26	
6-8	8	10	6.00	6.00	30.26	
6-9	9	10	6.00	6.00	36.26	
6-10	10	10	6.00	6.00	42.26	
6-11	11	9	6.32	6.32	48.58	
6-12	12	8	7.06	7.06	55.63	
6-13	13	8	7.50	7.50	63.13	
6-14	14	8	7.50	7.50	70.63	
6-15	15	8	7.50	7.50	78.13	
6-16	16	8	7.50	7.50	85.63	
6-17	17	7	8.00	8.00	93.63	
6-18	18	7	8.57	8.57	102.20	
6-19	19	8	8.00	8.00	110.20	
6-20	20	8	7.50	7.50	117.70	
6-21	21	21	4.14	4.14	121.84	
6-end	30.00	0	3.75	3.75	125.59	
					125.59	**Total Collected Runoff (approx)**

23-May-12
Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.28 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	363	0.33	0.33	0.33	
2-2	2.00	333	0.17	0.17	0.50	
2-3	3.00	303	0.19	0.19	0.69	
2-4	4.00	303	0.20	0.20	0.89	
2-5	5.00	318	0.19	0.19	1.08	
2-6	6.00	227	0.22	0.22	1.30	
2-7	7.00	197	0.28	0.28	1.59	
2-8	8.00	151	0.34	0.34	1.93	
2-9	9.00	136	0.42	0.42	2.35	
2-10	10.00	121	0.47	0.47	2.81	
2-11	11.00	121	0.50	0.50	3.31	
2-12	12.00	106	0.53	0.53	3.84	
2-13	13.00	91	0.61	0.61	4.45	
2-14	14.00	76	0.72	0.72	5.17	
2-15	15.00	76	0.79	0.79	5.96	
2-16	16.00	76	0.79	0.79	6.75	
2-17	17.00	76	0.79	0.79	7.54	
2-18	18.00	61	0.88	0.88	8.43	
2-19	19.00	61	0.99	0.99	9.42	
2-20	20.00	61	0.99	0.99	10.41	
2-21	21.00	182	0.50	0.50	10.90	
2-end	22.00	0	0.50	0.50	11.40	
					11.40	**Total Collected Runoff (approx)**
4.02 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	48	2.50	2.50	2.50	
4-2	2	44	1.30	1.30	3.80	
4-3	3	35	1.52	1.52	5.32	
4-4	4	24	2.03	2.03	7.36	
4-5	5	20	2.73	2.73	10.08	
4-6	6	21	2.93	2.93	13.01	
4-7	7	19	3.00	3.00	16.01	
4-8	8	19	3.16	3.16	19.17	
4-9	9	18	3.24	3.24	22.41	
4-10	10	18	3.33	3.33	25.74	
4-11	11	17	3.43	3.43	29.17	
4-12	12	17	3.53	3.53	32.70	
4-13	13	16	3.64	3.64	36.34	
4-14	14	16	3.75	3.75	40.09	
4-15	15	16	3.75	3.75	43.84	
4-16	16	16	3.75	3.75	47.58	
4-17	17	16	3.75	3.75	51.33	
4-18	18	16	3.75	3.75	55.08	
4-19	19	16	3.75	3.75	58.83	
4-20	20	16	3.75	3.75	62.58	
4-21	21	33	2.45	2.45	65.03	
4-end	24	0	1.87	1.87	66.91	
					66.91	**Total Collected Runoff (approx)**
6.12 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	25	4.80	4.80	4.80	
6-2	2	18	2.79	2.79	7.59	
6-3	3	16	3.53	3.53	11.12	
6-4	4	13	4.14	4.14	15.26	
6-5	5	11	5.00	5.00	20.26	
6-6	6	10	5.71	5.71	25.97	
6-7	7	10	6.00	6.00	31.97	
6-8	8	10	6.00	6.00	37.97	
6-9	9	10	6.00	6.00	43.97	
6-10	10	10	6.00	6.00	49.97	
6-11	11	10	6.00	6.00	55.97	
6-12	12	10	6.00	6.00	61.97	
6-13	13	9	6.32	6.32	68.28	
6-14	14	9	6.67	6.67	74.95	
6-15	15	9	6.67	6.67	81.61	
6-16	16	9	6.67	6.67	88.28	
6-17	17	9	6.67	6.67	94.94	
6-18	18	9	6.67	6.67	101.61	
6-19	19	9	6.67	6.67	108.28	
6-20	20	8	7.06	7.06	115.33	
6-21	21	13	5.71	5.71	121.05	
6-end	30	0	3.75	3.75	124.80	
					124.80	**Total Collected Runoff (approx)**

24-May-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.32 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	591	0.20	0.20	0.20	
2-2	2.00	515	0.11	0.11	0.31	
2-3	3.00	500	0.12	0.12	0.43	
2-4	4.00	485	0.12	0.12	0.55	
2-5	5.00	485	0.12	0.12	0.68	
2-6	6.00	485	0.12	0.12	0.80	
2-7	7.00	485	0.12	0.12	0.92	
2-8	8.00	424	0.13	0.13	1.06	
2-9	9.00	424	0.14	0.14	1.20	
2-10	10.00	379	0.15	0.15	1.35	
2-11	11.00	379	0.16	0.16	1.51	
2-12	12.00	379	0.16	0.16	1.66	
2-13	13.00	167	0.22	0.22	1.88	
2-14	14.00	106	0.44	0.44	2.32	
2-15	15.00	76	0.66	0.66	2.98	
2-16	16.00	61	0.88	0.88	3.87	
2-17	17.00	45	1.13	1.13	5.00	
2-18	18.00	45	1.32	1.32	6.32	
2-19	19.00	45	1.32	1.32	7.64	
2-20	20.00	45	1.32	1.32	8.96	
2-21	21.00	182	0.53	0.53	9.49	
2-end	22.00	0	0.66	0.66	10.15	
					10.15	**Total Collected Runoff (approx)**
4.07 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	47	2.55	2.55	2.55	
4-2	2	35	1.46	1.46	4.02	
4-3	3	29	1.87	1.87	5.89	
4-4	4	22	2.35	2.35	8.24	
4-5	5	20	2.86	2.86	11.10	
4-6	6	20	3.00	3.00	14.10	
4-7	7	19	3.08	3.08	17.18	
4-8	8	20	3.08	3.08	20.25	
4-9	9	19	3.08	3.08	23.33	
4-10	10	18	3.24	3.24	26.57	
4-11	11	18	3.33	3.33	29.91	
4-12	12	17	3.43	3.43	33.33	
4-13	13	17	3.53	3.53	36.86	
4-14	14	17	3.53	3.53	40.39	
4-15	15	17	3.53	3.53	43.92	
4-16	16	17	3.53	3.53	47.45	
4-17	17	17	3.53	3.53	50.98	
4-18	18	17	3.53	3.53	54.51	
4-19	19	17	3.53	3.53	58.04	
4-20	20	17	3.53	3.53	61.57	
4-21	21	22	3.08	3.08	64.64	
4-end	23	0	1.76	1.76	66.41	
					66.41	**Total Collected Runoff (approx)**
6.14 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	40	3.00	3.00	3.00	
6-2	2	33	1.64	1.64	4.64	
6-3	3	20	2.26	2.26	6.91	
6-4	4	13	3.64	3.64	10.54	
6-5	5	11	5.00	5.00	15.54	
6-6	6	10	5.71	5.71	21.26	
6-7	7	9	6.32	6.32	27.57	
6-8	8	9	6.67	6.67	34.24	
6-9	9	9	6.67	6.67	40.90	
6-10	10	9	6.67	6.67	47.57	
6-11	11	9	6.67	6.67	54.24	
6-12	12	9	6.67	6.67	60.90	
6-13	13	9	6.67	6.67	67.57	
6-14	14	8	7.06	7.06	74.63	
6-15	15	8	7.50	7.50	82.12	
6-16	16	8	7.50	7.50	89.62	
6-17	17	8	7.50	7.50	97.12	
6-18	18	8	7.50	7.50	104.62	
6-19	19	8	7.50	7.50	112.12	
6-20	20	8	7.50	7.50	119.62	
6-21	21	20	4.29	4.29	123.91	
6-end	30	0	3.75	3.75	127.66	
					127.66	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	15-May-12	23-May-12	24-May-12
Avg Moisture Content:	**22.71%**	**22.50%**	**22.68%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	243.35	246.96	66.48
Wt. Of cup + dry soil, g	238.65	241.66	57.51
Wt. Of cup, g	216.71	217.13	17.51
Wt. Of dry soil, g	21.94	24.53	40
Wt. Of water, g	4.7	5.3	8.97
Water Content, w%	21.4%	21.6%	22.4%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	261.08	262.05	66.57
Wt. Of cup + dry soil, g	252.51	253.38	57.52
Wt. Of cup, g	215.97	216.96	17.57
Wt. Of dry soil, g	36.54	36.42	39.95
Wt. Of water, g	8.57	8.67	9.05
Water Content, w%	23.5%	23.8%	22.7%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	250.63	258.35	51.09
Wt. Of cup + dry soil, g	244.32	250.82	44.82
Wt. Of cup, g	217.2	216.71	17.51
Wt. Of dry soil, g	27.12	34.11	27.31
Wt. Of water, g	6.31	7.53	6.27
Water Content, w%	23.3%	22.1%	23.0%

Soil Loss Data

Slope No.	1	2	3
Test Date:	15-May-12	23-May-12	24-May-12
Total Soil Loss	**6.68**	**6.73**	**6.79**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		176.9	181.6	199.8
Sub-Sample	Wt. Of cup + wet soil, g	176.9	181.6	199.8
	Wt. Of cup + dry soil, g	176.9	181.6	199.8
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	176.9	181.6	199.8
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.390	0.400	0.440

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		994.7	1035.1	953.4
Sub-Sample	Wt. Of cup + wet soil, g	994.7	1035.1	953.4
	Wt. Of cup + dry soil, g	994.7	1035.1	953.4
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	994.7	1035.1	953.4
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		2.191	2.280	2.100

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		1862.6	1838.7	1929.5
Sub-Sample	Wt. Of cup + wet soil, g	1862.6	1838.7	1929.5
	Wt. Of cup + dry soil, g	1862.6	1838.7	1929.5
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	1862.6	1838.7	1929.5
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		4.103	4.050	4.250

TYPICAL TESTING PICTURES



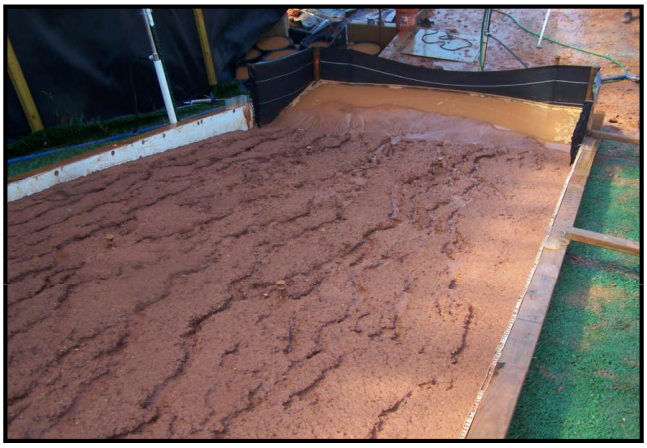
Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 30-May-12 | Start Rain: 9:04 AM | End Rain: 9:24 AM

Sampling interval: 0:03 | End Runoff: 9:26 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: 1215 | Descr:. Willacoochee Type A Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

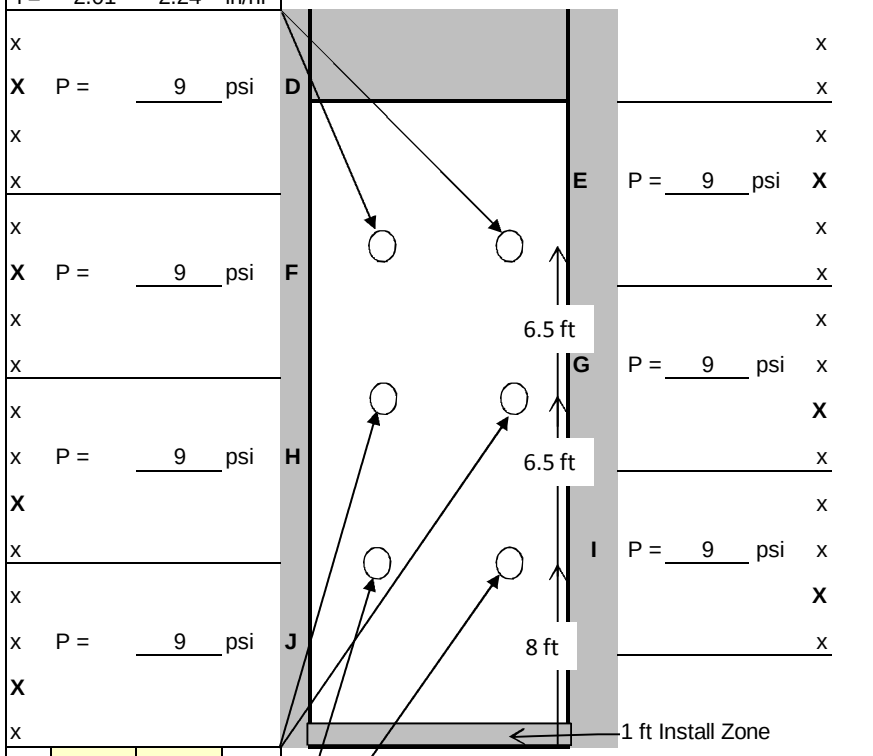
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.7%

d = 17 19 mm

i = 2.01 2.24 in/hr



d = 18 19 mm

i = 2.13 2.24 in/hr

w_{c2} = 22.9%

d = 19 20 mm

i = 2.24 2.36 in/hr

w_{c3} = 22.0%

x x **X** x

P = 9 psi

Temp. 77 deg

Hum. 67 %

Average Depth: **19** **mm**

Avg Rainfall Intensity: **2.20** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:07	X	X
9:10	X	X
9:13	X	X
9:16	X	X
9:19	X	X
9:22	X	X
9:25	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	30
2	250	28
3	250	22
4	250	20
5	250	18
6	250	15
7	250	12
8	250	12
9	250	12
10	250	12
11	250	12
12	250	12
13	250	12
14	250	12
15	250	12
16	250	11
17	250	11
18	250	11
19	250	11
20	250	11
21	250	24
22	250	0

NOTES:
Wind: 0 mph. Direction: E
Approx 6 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 30-May-12 | Start Rain: 9:34 AM | End Rain: 9:54 AM

Sampling interval: 0:03 | End Runoff: 9:57 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: 1215 | Descr:. Willacoochee Type A Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

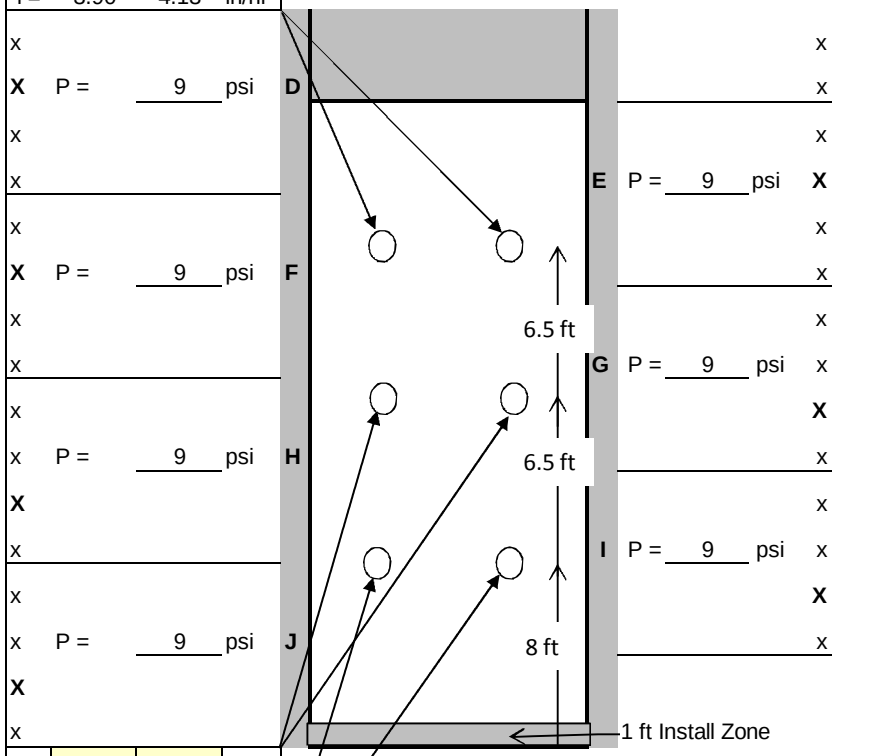
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.7%

d = 33 35 mm

i = 3.90 4.13 in/hr



d = 32 34 mm

i = 3.78 4.02 in/hr

w_{c2} = 22.9%

d = 36 35 mm

i = 4.25 4.13 in/hr

w_{c3} = 22.0%

x x **X** x

P = 9 psi

Temp. 77 deg

Hum. 67 %

Average Depth: 34 mm

Avg Rainfall Intensity: 4.04 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:37	X	X
9:40	X	X
9:43	X	X
9:46	X	X
9:49	X	X
9:52	X	X
9:55	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	57
2	3785	38
3	3785	31
4	3785	29
5	3785	26
6	3785	26
7	3785	23
8	3785	21
9	3785	20
10	3785	18
11	3785	18
12	3785	16
13	3785	16
14	3785	16
15	3785	16
16	3785	16
17	3785	16
18	3785	15
19	3785	15
20	3785	15
21	3785	33
23	3785	0

NOTES:

Wind: 1 mph. Direction: E

Approx 65 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 30-May-12 | Start Rain: 10:02 AM | End Rain: 10:22 AM

Sampling interval: 0:03 | End Runoff: 10:32 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: 1215 | Descr:. Willacoochee Type A Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

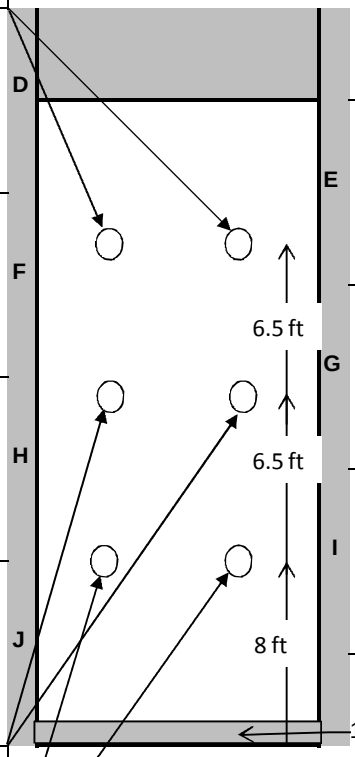
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.7%

d = 49 51 mm

i = 5.79 6.02 in/hr



x						x
X	P = 9 psi	**D**				x
x						x
x				**E**	P = 9 psi	**X**
x						x
X	P = 9 psi	**F**				x
x						x
x				**G**	P = 9 psi	x
x						**X**
x	P = 9 psi	**H**				x
X						x
x				**I**	P = 9 psi	x
x						**X**
x	P = 9 psi	**J**				x
X						
x						

x x **X** x

P = 9 psi

Temp. 79 deg

Hum. 67 %

d = 50 51 mm

i = 5.91 6.02 in/hr

w_{c2} = 22.9%

d = 54 52 mm

i = 6.38 6.14 in/hr

w_{c3} = 22.0%

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.04** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
10:05	X	X
10:08	X	X
10:11	X	X
10:14	X	X
10:17	X	X
10:20	X	X
10:23	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	42
2	3785	20
3	3785	14
4	3785	11
5	3785	11
6	3785	11
7	3785	11
8	3785	10
9	3785	10
10	3785	10
11	3785	10
12	3785	9
13	3785	9
14	3785	9
15	3785	9
16	3785	9
17	3785	9
18	3785	9
19	3785	9
20	3785	9
21	3785	26
30	3785	0

NOTES:

Wind: 0-1 mph. Direction: N

Approx 120 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date:	24-May-12	Start Rain:	8:54 AM	End Rain:	9:14 AM
		Sampling interval:	0:03	End Runoff:	9:16 AM
		Rain Time (min):	20.00	'est Time (min):	22.00
Product:	1215	Descr:.	Willacoochee Type A Silt Fence		
Lot #:		Posts:	Wood	Spacing:	6-ft

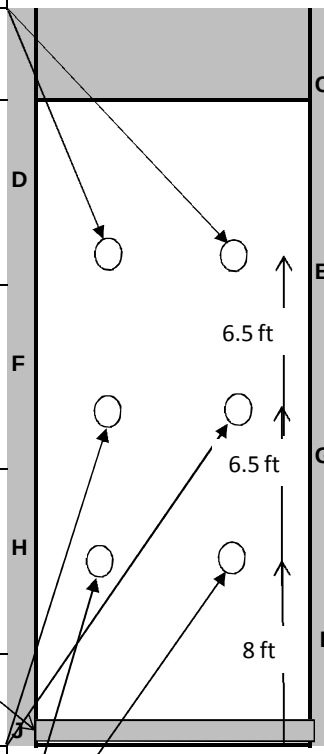
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.7%

d =	20	19	mm
i =	2.36	2.24	in/hr



x					x
				C P = 9 psi	X
x					x
X	P = 9 psi	D			x
x					x
x				E P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x				G P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x				I P = 9 psi	x
	1 ft Install Zone				X
					x

d =	19	19	mm
i =	2.24	2.24	in/hr

w_{c2} = 22.9%

d =	20	19	mm
i =	2.36	2.24	in/hr

w_{c3} = 22.0%

x x X x

P = 9 psi

Temp. 70 deg

Hum. 86 %

Average Depth: **19** **mm**

Avg Rainfall Intensity: **2.28** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:57	X	X
9:00	X	X
9:03	X	X
9:06	X	X
9:09	X	X
9:12	X	X
9:15	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	31
2	250	26
3	250	22
4	250	21
5	250	18
6	250	14
7	250	13
8	250	12
9	250	12
10	250	12
11	250	12
12	250	11
13	250	11
14	250	11
15	250	11
16	250	11
17	250	11
18	250	11
19	250	10
20	250	10
21	250	19
22	250	0

NOTES:
Wind: 0 mph. Direction: E
Approx 7 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 24-May-12 | Start Rain: 9:23 AM | End Rain: 9:43 AM

Sampling interval: 0:03 | End Runoff: 9:47 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: 29-Apr-03 | Descr:. Willacoochee Type A Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

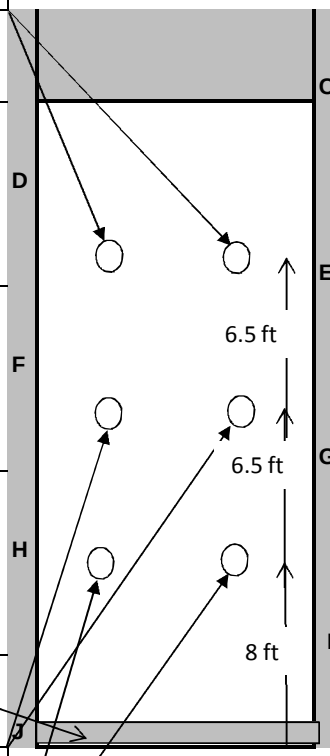
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.7%

d = 35 34 mm

i = 4.13 4.02 in/hr



				C	P = 9 psi	X
x				D	P = 9 psi	X
x				E	P = 9 psi	X
x				F	P = 9 psi	X
x				G	P = 9 psi	x
x				H	P = 9 psi	x
x				I	P = 9 psi	x
x				J		x

d = 35 34 mm

i = 4.13 4.02 in/hr

w_{c2} = 22.9%

d = 34 33 mm

i = 4.02 3.90 in/hr

w_{c3} = 22.0%

x x **X** x

P = 9 psi

Temp. 62 deg

Hum. 95 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.04** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:26	X	X
9:29	X	X
9:32	X	X
9:35	X	X
9:38	X	X
9:41	X	X
9:44	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	55
2	3785	36
3	3785	31
4	3785	28
5	3785	24
6	3785	23
7	3785	23
8	3785	21
9	3785	18
10	3785	17
11	3785	15
12	3785	15
13	3785	15
14	3785	15
15	3785	14
16	3785	14
17	3785	14
18	3785	14
19	3785	14
20	3785	14
21	3785	44
24	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 70 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date:	24-May-12	Start Rain:	9:23 AM	End Rain:	9:43 AM
		Sampling interval:	0:03	End Runoff:	9:53 AM
		Rain Time (min):	20.00	Test Time (min):	30.00
Product:	29-Apr-03	Descr:.	Willacoochee Type A Silt Fence		
Lot #:		Posts:	Wood	Spacing:	6-ft

TOP OF SLOPE

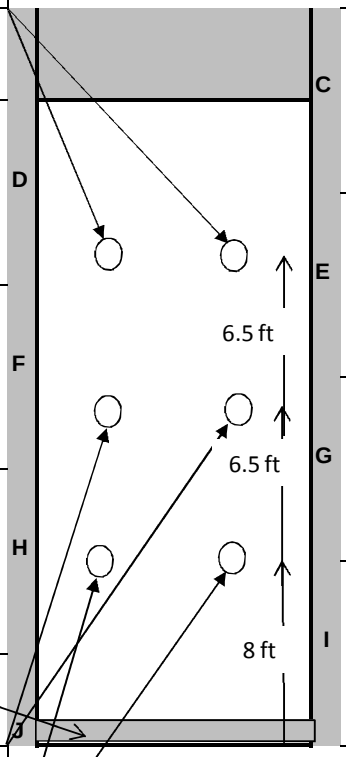
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.7%

d = 50 51 mm

i = 5.91 6.02 in/hr



x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
C P = 9 psi **X**
x
x

x
E P = 9 psi **X**
x
x

x
G P = 9 psi x
X
x

x
I P = 9 psi x
X
x

d = 53 54 mm

i = 6.26 6.38 in/hr

w_{c2} = 22.9%

x x **X** x

P = 9 psi

Temp. 73 deg

Hum. 80 %

d = 50 51 mm

i = 5.91 6.02 in/hr

w_{c3} = 22.0%

Average Depth: **52** **mm**

Avg Rainfall Intensity: **6.08** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:26	X	X
9:29	X	X
9:32	X	X
9:35	X	X
9:38	X	X
9:41	X	X
9:44	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	44
2	3785	30
3	3785	24
4	3785	16
5	3785	14
6	3785	12
7	3785	12
8	3785	11
9	3785	10
10	3785	10
11	3785	10
12	3785	9
13	3785	8
14	3785	8
15	3785	8
16	3785	8
17	3785	8
18	3785	8
19	3785	8
20	3785	8
21	3785	23
30	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 120 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date: 30-May-12 | Start Rain: 7:11 AM | End Rain: 7:31 AM

Sampling interval: 0:03 | End Runoff: 7:33 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: 1215 | Descr:. Willacoochee Type A Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

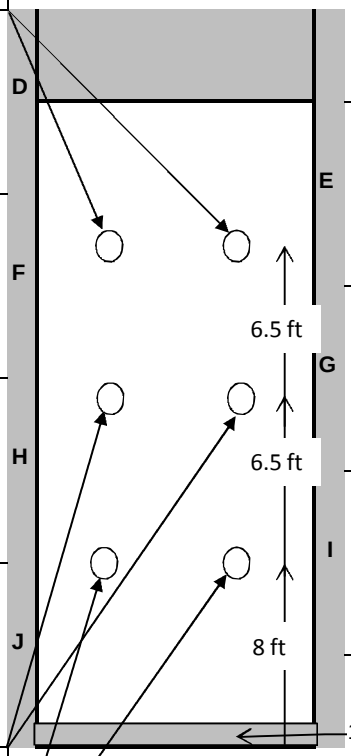
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.7%

d = 21 18 mm

i = 2.48 2.13 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 20 18 mm

i = 2.36 2.13 in/hr

w_{c2} = 22.9%

d = 18 17 mm

i = 2.13 2.01 in/hr

w_{c3} = 22.0%

x x **X** x

P = 9 psi

Temp. 67 deg

Hum. 94 %

Average Depth: **19** **mm**

Avg Rainfall Intensity: **2.20** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:14	X	X
7:17	X	X
7:20	X	X
7:23	X	X
7:26	X	X
7:29	X	X
7:32	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	23
2	250	18
3	250	17
4	250	14
5	250	14
6	250	13
7	250	12
8	250	12
9	250	11
10	250	11
11	250	11
12	250	10
13	250	10
14	250	10
15	250	9
16	250	9
17	250	9
18	250	9
19	250	9
20	250	9
21	250	22
22	250	0

NOTES: Test on Slope G2

Wind: 0 mph. Direction: N

Approx 8 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date:	30-May-12	Start Rain:	7:40 AM	End Rain:	8:00 AM
		Sampling interval:	0:03	End Runoff:	8:03 AM
		Rain Time (min):	20.00	Test Time (min):	23.00
Product:	1215	Descr:.	Willacoochee Type A Silt Fence		
Lot #:		Posts:	Wood	Spacing:	6-ft

TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.7%

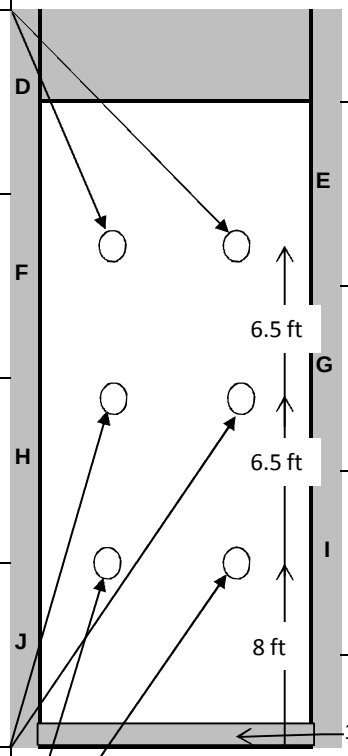
d =	37	34	mm
i =	4.37	4.02	in/hr

x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
x P = 9 psi **J**
X
x



x
x
x
E P = 9 psi **X**
x
x
x
G P = 9 psi x
X
x
x
I P = 9 psi x
X
x

x x **X** x

P = 9 psi

Temp. 69 deg

Hum. 93 %

d =	34	32	mm
i =	4.02	3.78	in/hr

w_{c2} = 22.9%

d =	33	34	mm
i =	3.90	4.02	in/hr

w_{c3} = 22.0%

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.02** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:43	X	X
7:46	X	X
7:49	X	X
7:52	X	X
7:55	X	X
7:58	X	X
8:01	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	47
2	3785	38
3	3785	31
4	3785	26
5	3785	20
6	3785	20
7	3785	18
8	3785	18
9	3785	16
10	3785	16
11	3785	16
12	3785	16
13	3785	16
14	3785	16
15	3785	15
16	3785	15
17	3785	15
18	3785	14
19	3785	14
20	3785	14
21	3785	25
23	3785	0

NOTES:
Wind: 0 mph. Direction: N
Approx 72 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date:	30-May-12	Start Rain:	8:10 AM	End Rain:	8:30 AM
		Sampling interval:	0:03	End Runoff:	8:40 AM
		Rain Time (min):	20.00	Test Time (min):	30.00
Product:	1215	Descr:.	Willacoochee Type A Silt Fence		
Lot #:		Posts:	Wood	Spacing:	6-ft

TOP OF SLOPE

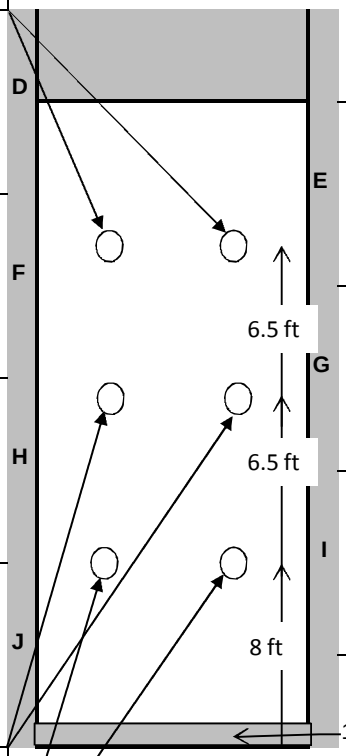
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.7%

d = 53 54 mm

i = 6.26 6.38 in/hr



x								x
X	P =	9	psi	D				x
x								x
x					E	P =	9 psi	X
x								x
X	P =	9	psi	F				x
x								x
x					G	P =	9 psi	x
x								X
x	P =	9	psi	H				x
X								x
x					I	P =	9 psi	x
x								X
x	P =	9	psi	J				x
X								
x								

d = 53 52 mm

i = 6.26 6.14 in/hr

w_{c2} = 22.9%

d = 49 52 mm

i = 5.79 6.14 in/hr

w_{c3} = 22.0%

x x **X** x

P = 9 psi

Temp. 69 deg

Hum. 90 %

Average Depth: **52** **mm**

Avg Rainfall Intensity: **6.16** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:13	X	X
8:16	X	X
8:19	X	X
8:22	X	X
8:25	X	X
8:28	X	X
8:31	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	35
2	3785	30
3	3785	19
4	3785	11
5	3785	10
6	3785	10
7	3785	11
8	3785	10
9	3785	9
10	3785	9
11	3785	10
12	3785	9
13	3785	9
14	3785	9
15	3785	9
16	3785	8
17	3785	8
18	3785	8
19	3785	8
20	3785	8
21	3785	25
30	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 125 gallons collected.

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	53.2
2	20	59.9
3	20	55.5

1215 Willacoochee Type A Silt Fence

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	1554	2-1	3.00	1283	2-1	3.00	715
2-2	6.00	2106	2-2	6.00	2382	2-2	6.00	2281
2-3	9.00	2192	2-3	9.00	3220	2-3	9.00	1524
2-4	12.00	3258	2-4	12.00	3492	2-4	12.00	3655
2-5	15.00	3745	2-5	15.00	2944	2-5	15.00	2372
2-6	18.00	2037	2-6	18.00	3127	2-6	18.00	3600
2-7	21.00	960	2-7	21.00	2438	2-7	21.00	1921
avg		**2265**	avg		**2698**	avg		**2295**
4-1	3.00	2860	4-1	2.00	3667	4-1	2.00	3722
4-2	6.00	2333	4-2	4.00	3270	4-2	4.00	3339
4-3	9.00	1984	4-3	6.00	3187	4-3	6.00	3326
4-4	12.00	2097	4-4	8.00	2971	4-4	8.00	2476
4-5	15.00	1887	4-5	10.00	2680	4-5	10.00	2173
4-6	18.00	1991	4-6	12.00	3287	4-6	12.00	2424
4-7	21.00	1079	4-7	21.00	1866	4-7	21.00	1397
avg		**2033**	avg		**2990**	avg		**2694**
6-1	3.00	2390	6-1	3.00	2763	6-1	3.00	4826
6-2	6.00	2398	6-2	6.00	2713	6-2	6.00	2964
6-3	9.00	1414	6-3	9.00	2064	6-3	9.00	2322
6-4	12.00	1541	6-4	12.00	2492	6-4	12.00	2709
6-5	15.00	1985	6-5	15.00	2096	6-5	15.00	2456
6-6	18.00	1770	6-6	18.00	2375	6-6	18.00	2057
6-7	21.00	1187	6-7	21.00	1664	6-7	21.00	1911
avg		**1812**	avg		**2310**	avg		**2749**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.20	in/hr	avg														
30-May-12		2-1	3.00	347.12	172.58	151.83	151.59	240.00	195.29	0.20	1228.94	3.00	333.12	0.56	1228.94	0.01
		2-2	6.00	292.40	156.51	151.19	150.93	260.00	141.21	0.14	1841.23	6.00	227.12	0.64	1841.23	0.01
		2-3	9.00	353.44	157.22	151.53	150.98	550.00	201.91	0.20	2723.99	9.00	181.70	0.95	2723.99	0.02
		2-4	12.00	365.43	157.96	150.06	149.28	780.00	215.37	0.22	3621.67	12.00	181.70	0.99	3621.67	0.03
		2-5	15.00	330.59	159.03	151.36	150.79	570.00	179.23	0.18	3180.27	15.00	181.70	0.99	3180.27	0.03
		2-6	18.00	326.21	159.60	152.06	151.83	230.00	174.15	0.17	1320.70	18.00	166.56	1.07	1320.70	0.01
		2-7	21.00	356.95	157.70	150.91	150.26	650.00	206.04	0.21	3154.73	21.00	363.40	0.95	3154.73	0.02
										AVG =	**2438.79**	22.00	0	0.18	3154.73	0.00
4.04	in/hr	avg									2438.79			**Total Solids Lost:**		**0.13**
30-May-12		4-1	3.00	330.71	156.60	149.83	149.37	460.00	180.88	0.18	2543.12	3.00	31.00	5.11	2543.12	0.11
		4-2	6.00	310.40	156.31	151.65	151.34	310.00	158.75	0.16	1952.76	6.00	26.00	6.49	1952.76	0.11
		4-3	9.00	340.71	153.86	148.15	147.74	410.00	192.56	0.19	2129.21	9.00	20.00	8.10	2129.21	0.14
		4-4	12.00	338.47	156.31	150.63	150.25	380.00	187.84	0.19	2023.00	12.00	16.00	10.02	2023.00	0.17
		4-5	15.00	317.30	154.74	149.56	149.08	480.00	167.74	0.17	2861.57	15.00	16.00	11.25	2861.57	0.27
		4-6	18.00	345.12	167.03	151.21	150.85	360.00	193.91	0.19	1856.53	18.00	15.00	11.37	1856.53	0.18
		4-7	21.00	313.71	155.77	147.50	147.11	390.00	166.21	0.17	2346.43	21.00	33.00	10.50	2346.43	0.21
										AVG =	**2244.66**	23.00	0.00	2.00	2346.43	0.04
6.04	in/hr	avg									2244.66			**Total Solids Lost:**		**1.22**
30-May-12		6-1	3.00	310.85	156.73	150.89	150.28	610.00	159.96	0.16	3813.45	3.00	14.00	8.32	3813.45	0.26
		6-2	6.00	303.44	167.78	150.35	149.99	360.00	153.09	0.15	2351.56	6.00	11.00	15.71	2351.56	0.31
		6-3	9.00	321.51	156.53	150.35	149.98	370.00	171.16	0.17	2161.72	9.00	10.00	17.17	2161.72	0.31
		6-4	12.00	336.47	169.65	150.98	150.54	440.00	185.49	0.19	2372.10	12.00	9.00	18.31	2372.10	0.36
		6-5	15.00	327.15	170.70	150.94	150.17	770.00	176.21	0.18	4369.79	15.00	9.00	20.00	4369.79	0.73
		6-6	18.00	301.66	158.64	150.47	150.06	410.00	151.19	0.15	2711.82	18.00	9.00	20.00	2711.82	0.45
		6-7	21.00	329.54	167.06	149.65	148.44	1210.00	179.89	0.18	6726.33	21.00	26.00	16.76	6726.33	0.94
										AVG =	**3500.97**	30.00	0.00	3.33	6726.33	0.19
											3500.97			**Total Solids Lost:**		**3.55**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.28	in/hr	avg														
24-May-12		2-1	3.00	335.63	156.21	148.71	146.79	1920.00	186.92	0.19	10271.77	3.00	333.12	0.56	10271.77	0.05
		2-2	6.00	343.74	166.84	151.65	151.35	300.00	192.09	0.19	1561.77	6.00	211.98	0.64	1561.77	0.01
		2-3	9.00	345.08	173.77	148.89	147.67	1220.00	196.19	0.20	6218.46	9.00	181.70	0.94	6218.46	0.05
		2-4	12.00	314.47	170.68	151.62	150.88	740.00	162.85	0.16	4544.06	12.00	166.56	1.01	4544.06	0.04
		2-5	15.00	360.87	184.22	148.96	147.75	1210.00	211.91	0.21	5709.97	15.00	166.56	1.08	5709.97	0.05
		2-6	18.00	327.61	179.82	150.31	149.21	1100.00	177.30	0.18	6204.17	18.00	166.56	1.08	6204.17	0.06
		2-7	21.00	321.81	172.68	150.77	149.98	790.00	171.04	0.17	4618.80	21.00	287.69	1.05	4618.80	0.04
										AVG =	**5589.86**	22.00	0.00	0.20	4618.80	0.01
4.04	in/hr	avg									5589.86			**Total Solids Lost:**		**0.30**
24-May-12		4-1	3.00	338.08	165.61	151.28	150.60	680.00	186.80	0.19	3640.26	3.00	31.00	5.29	3640.26	0.16
		4-2	6.00	305.67	157.30	150.10	149.99	110.00	155.57	0.16	707.08	6.00	23.00	6.89	707.08	0.04
		4-3	9.00	331.33	161.22	151.45	150.87	580.00	179.88	0.18	3224.37	9.00	18.00	8.41	3224.37	0.23
		4-4	12.00	312.24	166.00	147.13	146.45	680.00	165.11	0.17	4118.47	12.00	15.00	11.18	4118.47	0.38
		4-5	15.00	337.18	162.66	150.14	149.58	560.00	187.04	0.19	2994.01	15.00	14.00	12.14	2994.01	0.30
		4-6	18.00	314.15	177.16	152.32	151.98	340.00	161.83	0.16	2100.97	18.00	14.00	12.86	2100.97	0.23
		4-7	21.00	335.34	180.46	148.38	147.65	730.00	186.96	0.19	3904.58	21.00	44.00	10.64	3904.58	0.35
										AVG =	**2955.68**	24.00	0.00	2.14	3904.58	0.07
6.08	in/hr	avg									2955.68			**Total Solids Lost:**		**1.76**
24-May-12		6-1	3.00	348.22	172.52	151.43	150.86	570.00	196.79	0.20	2896.49	3.00	24.00	6.57	2896.49	0.16
		6-2	6.00	344.69	192.62	150.61	149.98	630.00	194.08	0.19	3246.08	6.00	12.00	11.61	3246.08	0.31
		6-3	9.00	320.86	167.02	150.35	147.81	2540.00	170.51	0.17	14896.49	9.00	10.00	15.93	14896.49	1.98
		6-4	12.00	321.96	172.91	150.23	149.89	340.00	171.73	0.17	1979.85	12.00	9.00	18.31	1979.85	0.30
		6-5	15.00	328.82	157.35	150.08	149.67	410.00	178.74	0.18	2293.83	15.00	8.00	22.06	2293.83	0.42
		6-6	18.00	345.02	177.94	151.57	151.07	500.00	193.45	0.19	2584.65	18.00	8.00	22.50	2584.65	0.49
		6-7	21.00	354.58	155.70	150.81	150.37	440.00	203.77	0.20	2159.30	21.00	23.00	18.87	2159.30	0.34
										AVG =	**4293.81**	30.00	0.00	3.75	2159.30	0.07
											4293.81			**Total Solids Lost:**		**4.07**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.20	in/hr	avg														
30-May-12		2-1	3.00	329.79	160.01	150.61	148.79	1820.00	179.18	0.18	10157.38	3.00	257.41	0.76	10157.38	0.06
		2-2	6.00	345.15	158.32	151.92	151.78	140.00	193.23	0.19	724.53	6.00	196.84	0.83	724.53	0.01
		2-3	9.00	347.08	155.78	149.35	149.28	70.00	197.73	0.20	354.02	9.00	166.56	0.99	354.02	0.00
		2-4	12.00	360.18	161.40	151.96	150.88	1080.00	208.22	0.21	5186.82	12.00	151.42	1.10	5186.82	0.05
		2-5	15.00	314.25	169.19	148.88	147.75	1130.00	165.37	0.17	6833.16	15.00	136.27	1.21	6833.16	0.07
		2-6	18.00	358.97	184.50	150.34	149.47	870.00	208.63	0.21	4170.06	18.00	136.27	1.32	4170.06	0.05
		2-7	21.00	348.11	157.26	149.41	149.16	250.00	198.70	0.20	1258.18	21.00	333.12	1.14	1258.18	0.01
										AVG =	**4097.74**	22.00	0.00	0.22	1258.18	0.00
4.02	in/hr	avg									4097.74			**Total Solids Lost:**		**0.25**
30-May-12		4-1	3.00	288.99	176.61	150.91	150.60	310.00	138.08	0.14	2245.08	3.00	31.00	5.70	2245.08	0.11
		4-2	6.00	351.12	166.55	150.93	149.99	940.00	200.19	0.20	4695.54	6.00	20.00	7.71	4695.54	0.30
		4-3	9.00	316.15	168.27	151.62	150.87	750.00	164.53	0.16	4558.44	9.00	16.00	10.02	4558.44	0.38
		4-4	12.00	342.31	165.41	147.79	147.45	340.00	194.52	0.19	1747.89	12.00	16.00	11.25	1747.89	0.16
		4-5	15.00	289.81	157.15	150.15	149.58	570.00	139.66	0.14	4081.34	15.00	15.00	11.37	4081.34	0.39
		4-6	18.00	350.69	158.47	152.94	151.98	960.00	197.75	0.20	4854.61	18.00	14.00	12.14	4854.61	0.49
		4-7	21.00	352.65	154.36	148.64	147.65	990.00	204.01	0.20	4852.70	21.00	25.00	11.65	4852.70	0.47
										AVG =	**3862.23**	23.00	0.00	2.14	4852.70	0.09
6.16	in/hr	avg									3862.23			**Total Solids Lost:**		**2.39**
30-May-12		6-1	3.00	346.39	176.37	152.24	150.97	1270.00	194.15	0.19	6541.33	3.00	19.00	7.72	6541.33	0.42
		6-2	6.00	322.72	168.93	150.87	150.23	640.00	171.85	0.17	3724.18	6.00	10.00	15.71	3724.18	0.49
		6-3	9.00	356.78	167.49	151.07	150.24	830.00	205.71	0.21	4034.81	9.00	9.00	17.74	4034.81	0.60
		6-4	12.00	341.98	157.90	149.03	148.06	970.00	192.95	0.19	5027.21	12.00	9.00	19.30	5027.21	0.81
		6-5	15.00	337.24	171.77	151.72	151.30	420.00	185.52	0.19	2263.91	15.00	9.00	20.00	2263.91	0.38
		6-6	18.00	353.24	158.35	151.04	149.91	1130.00	202.20	0.20	5588.53	18.00	8.00	22.06	5588.53	1.03
		6-7	21.00	363.83	158.18	151.34	150.56	780.00	212.49	0.21	3670.76	21.00	25.00	18.63	3670.76	0.57
										AVG =	**4407.25**	30.00	0.00	3.75	3670.76	0.11
											4407.25			**Total Solids Lost:**		**4.41**

30-May-12
Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.20 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	454	0.26	0.26	0.26	
2-2	2.00	424	0.14	0.14	0.40	
2-3	3.00	333	0.16	0.16	0.56	
2-4	4.00	303	0.19	0.19	0.75	
2-5	5.00	273	0.21	0.21	0.96	
2-6	6.00	227	0.24	0.24	1.20	
2-7	7.00	182	0.29	0.29	1.49	
2-8	8.00	182	0.33	0.33	1.82	
2-9	9.00	182	0.33	0.33	2.15	
2-10	10.00	182	0.33	0.33	2.48	
2-11	11.00	182	0.33	0.33	2.81	
2-12	12.00	182	0.33	0.33	3.14	
2-13	13.00	182	0.33	0.33	3.47	
2-14	14.00	182	0.33	0.33	3.80	
2-15	15.00	182	0.33	0.33	4.13	
2-16	16.00	167	0.34	0.34	4.48	
2-17	17.00	167	0.36	0.36	4.84	
2-18	18.00	167	0.36	0.36	5.20	
2-19	19.00	167	0.36	0.36	5.56	
2-20	20.00	167	0.36	0.36	5.92	
2-21	21.00	363	0.23	0.23	6.14	
2-end	22.00	0	0.18	0.18	6.32	
					6.32	**Total Collected Runoff (approx)**
4.04 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	57	2.11	2.11	2.11	
4-2	2	38	1.26	1.26	3.37	
4-3	3	31	1.74	1.74	5.11	
4-4	4	29	2.00	2.00	7.11	
4-5	5	26	2.18	2.18	9.29	
4-6	6	26	2.31	2.31	11.60	
4-7	7	23	2.45	2.45	14.04	
4-8	8	21	2.73	2.73	16.77	
4-9	9	20	2.93	2.93	19.70	
4-10	10	18	3.16	3.16	22.86	
4-11	11	18	3.33	3.33	26.19	
4-12	12	16	3.53	3.53	29.72	
4-13	13	16	3.75	3.75	33.47	
4-14	14	16	3.75	3.75	37.22	
4-15	15	16	3.75	3.75	40.97	
4-16	16	16	3.75	3.75	44.72	
4-17	17	16	3.75	3.75	48.47	
4-18	18	15	3.87	3.87	52.34	
4-19	19	15	4.00	4.00	56.34	
4-20	20	15	4.00	4.00	60.34	
4-21	21	33	2.50	2.50	62.83	
4-end	23.00	0	2.00	2.00	64.83	
					64.83	**Total Collected Runoff (approx)**
6.04 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	42	2.86	2.86	2.86	
6-2	2	20	1.94	1.94	4.79	
6-3	3	14	3.53	3.53	8.32	
6-4	4	11	4.80	4.80	13.12	
6-5	5	11	5.45	5.45	18.57	
6-6	6	11	5.45	5.45	24.03	
6-7	7	11	5.45	5.45	29.48	
6-8	8	10	5.71	5.71	35.20	
6-9	9	10	6.00	6.00	41.20	
6-10	10	10	6.00	6.00	47.19	
6-11	11	10	6.00	6.00	53.19	
6-12	12	9	6.32	6.32	59.51	
6-13	13	9	6.67	6.67	66.18	
6-14	14	9	6.67	6.67	72.84	
6-15	15	9	6.67	6.67	79.51	
6-16	16	9	6.67	6.67	86.17	
6-17	17	9	6.67	6.67	92.84	
6-18	18	9	6.67	6.67	99.50	
6-19	19	9	6.67	6.67	106.17	
6-20	20	9	6.67	6.67	112.84	
6-21	21	26	3.43	3.43	116.27	
6-end	30.00	0	3.33	3.33	119.60	
					119.60	**Total Collected Runoff (approx)**

24-May-12

Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.28 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	469	0.26	0.26	0.26	
2-2	2.00	394	0.14	0.14	0.39	
2-3	3.00	333	0.17	0.17	0.56	
2-4	4.00	318	0.18	0.18	0.74	
2-5	5.00	273	0.20	0.20	0.95	
2-6	6.00	212	0.25	0.25	1.19	
2-7	7.00	197	0.29	0.29	1.49	
2-8	8.00	182	0.32	0.32	1.81	
2-9	9.00	182	0.33	0.33	2.14	
2-10	10.00	182	0.33	0.33	2.47	
2-11	11.00	182	0.33	0.33	2.80	
2-12	12.00	167	0.34	0.34	3.14	
2-13	13.00	167	0.36	0.36	3.50	
2-14	14.00	167	0.36	0.36	3.86	
2-15	15.00	167	0.36	0.36	4.22	
2-16	16.00	167	0.36	0.36	4.58	
2-17	17.00	167	0.36	0.36	4.94	
2-18	18.00	167	0.36	0.36	5.30	
2-19	19.00	151	0.38	0.38	5.68	
2-20	20.00	151	0.40	0.40	6.08	
2-21	21.00	288	0.27	0.27	6.35	
2-end	22.00	0	0.20	0.20	6.55	
					6.55	**Total Collected Runoff (approx)**
4.04 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	55	2.18	2.18	2.18	
4-2	2	36	1.32	1.32	3.50	
4-3	3	31	1.79	1.79	5.29	
4-4	4	28	2.03	2.03	7.32	
4-5	5	24	2.31	2.31	9.63	
4-6	6	23	2.55	2.55	12.19	
4-7	7	23	2.61	2.61	14.79	
4-8	8	21	2.73	2.73	17.52	
4-9	9	18	3.08	3.08	20.60	
4-10	10	17	3.43	3.43	24.03	
4-11	11	15	3.75	3.75	27.77	
4-12	12	15	4.00	4.00	31.77	
4-13	13	15	4.00	4.00	35.77	
4-14	14	15	4.00	4.00	39.77	
4-15	15	14	4.14	4.14	43.91	
4-16	16	14	4.29	4.29	48.20	
4-17	17	14	4.29	4.29	52.48	
4-18	18	14	4.29	4.29	56.77	
4-19	19	14	4.29	4.29	61.05	
4-20	20	14	4.29	4.29	65.34	
4-21	21	44	2.07	2.07	67.41	
4-end	24	0	2.14	2.14	69.55	
					69.55	**Total Collected Runoff (approx)**
6.08 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	44	2.73	2.73	2.73	
6-2	2	30	1.62	1.62	4.35	
6-3	3	24	2.22	2.22	6.57	
6-4	4	16	3.00	3.00	9.57	
6-5	5	14	4.00	4.00	13.57	
6-6	6	12	4.61	4.61	18.18	
6-7	7	12	5.00	5.00	23.18	
6-8	8	11	5.22	5.22	28.40	
6-9	9	10	5.71	5.71	34.11	
6-10	10	10	6.00	6.00	40.11	
6-11	11	10	6.00	6.00	46.11	
6-12	12	9	6.32	6.32	52.43	
6-13	13	8	7.06	7.06	59.49	
6-14	14	8	7.50	7.50	66.99	
6-15	15	8	7.50	7.50	74.48	
6-16	16	8	7.50	7.50	81.98	
6-17	17	8	7.50	7.50	89.48	
6-18	18	8	7.50	7.50	96.98	
6-19	19	8	7.50	7.50	104.48	
6-20	20	8	7.50	7.50	111.98	
6-21	21	23	3.87	3.87	115.85	
6-end	30	0	3.75	3.75	119.60	
					119.60	**Total Collected Runoff (approx)**

30-May-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.20 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	348	0.34	0.34	0.34	
2-2	2.00	273	0.19	0.19	0.54	
2-3	3.00	257	0.23	0.23	0.76	
2-4	4.00	212	0.26	0.26	1.02	
2-5	5.00	212	0.28	0.28	1.30	
2-6	6.00	197	0.29	0.29	1.60	
2-7	7.00	182	0.32	0.32	1.91	
2-8	8.00	182	0.33	0.33	2.24	
2-9	9.00	167	0.34	0.34	2.59	
2-10	10.00	167	0.36	0.36	2.95	
2-11	11.00	167	0.36	0.36	3.31	
2-12	12.00	151	0.38	0.38	3.69	
2-13	13.00	151	0.40	0.40	4.08	
2-14	14.00	151	0.40	0.40	4.48	
2-15	15.00	136	0.42	0.42	4.90	
2-16	16.00	136	0.44	0.44	5.34	
2-17	17.00	136	0.44	0.44	5.78	
2-18	18.00	136	0.44	0.44	6.22	
2-19	19.00	136	0.44	0.44	6.66	
2-20	20.00	136	0.44	0.44	7.10	
2-21	21.00	333	0.26	0.26	7.35	
2-end	22.00	0	0.22	0.22	7.57	
					7.57	**Total Collected Runoff (approx)**
4.02 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	47	2.55	2.55	2.55	
4-2	2	38	1.41	1.41	3.96	
4-3	3	31	1.74	1.74	5.70	
4-4	4	26	2.11	2.11	7.81	
4-5	5	20	2.61	2.61	10.42	
4-6	6	20	3.00	3.00	13.42	
4-7	7	18	3.16	3.16	16.57	
4-8	8	18	3.33	3.33	19.91	
4-9	9	16	3.53	3.53	23.44	
4-10	10	16	3.75	3.75	27.19	
4-11	11	16	3.75	3.75	30.94	
4-12	12	16	3.75	3.75	34.68	
4-13	13	16	3.75	3.75	38.43	
4-14	14	16	3.75	3.75	42.18	
4-15	15	15	3.87	3.87	46.05	
4-16	16	15	4.00	4.00	50.05	
4-17	17	15	4.00	4.00	54.05	
4-18	18	14	4.14	4.14	58.19	
4-19	19	14	4.29	4.29	62.48	
4-20	20	14	4.29	4.29	66.76	
4-21	21	25	3.08	3.08	69.84	
4-end	23	0	2.14	2.14	71.98	
					71.98	**Total Collected Runoff (approx)**
6.16 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	35	3.43	3.43	3.43	
6-2	2	30	1.85	1.85	5.27	
6-3	3	19	2.45	2.45	7.72	
6-4	4	11	4.00	4.00	11.72	
6-5	5	10	5.71	5.71	17.44	
6-6	6	10	6.00	6.00	23.44	
6-7	7	11	5.71	5.71	29.15	
6-8	8	10	5.71	5.71	34.86	
6-9	9	9	6.32	6.32	41.18	
6-10	10	9	6.67	6.67	47.84	
6-11	11	10	6.32	6.32	54.16	
6-12	12	9	6.32	6.32	60.47	
6-13	13	9	6.67	6.67	67.14	
6-14	14	9	6.67	6.67	73.81	
6-15	15	9	6.67	6.67	80.47	
6-16	16	8	7.06	7.06	87.53	
6-17	17	8	7.50	7.50	95.03	
6-18	18	8	7.50	7.50	102.53	
6-19	19	8	7.50	7.50	110.03	
6-20	20	8	7.50	7.50	117.53	
6-21	21	25	3.64	3.64	121.16	
6-end	30	0	3.75	3.75	124.91	
					124.91	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	30-May-12	24-May-12	30-May-12
Avg Moisture Content:	**22.22%**	**20.83%**	**21.49%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	248.63	62.65	256.72
Wt. Of cup + dry soil, g	242.93	54.52	249.75
Wt. Of cup, g	216.7	17.51	216.7
Wt. Of dry soil, g	26.23	37.01	33.05
Wt. Of water, g	5.7	8.13	6.97
Water Content, w%	21.7%	22.0%	21.1%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	254.57	60.77	259.85
Wt. Of cup + dry soil, g	247.39	53.53	251.78
Wt. Of cup, g	216.03	17.51	216.03
Wt. Of dry soil, g	31.36	36.02	35.75
Wt. Of water, g	7.18	7.24	8.07
Water Content, w%	22.9%	20.1%	22.6%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	257.05	64.71	258.81
Wt. Of cup + dry soil, g	249.85	56.71	251.64
Wt. Of cup, g	217.16	17.51	217.16
Wt. Of dry soil, g	32.69	39.2	34.48
Wt. Of water, g	7.2	8	7.17
Water Content, w%	22.0%	20.4%	20.8%

Soil Loss Data

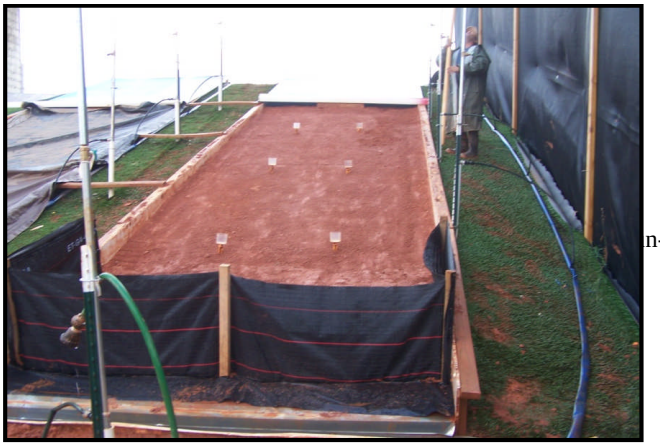
Slope No.	1	2	3
Test Date:	30-May-12	24-May-12	30-May-12
Total Soil Loss	**5.31**	**5.75**	**6.61**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		49.9	68.1	95.3
Sub-Sample	Wt. Of cup + wet soil, g	49.9	68.1	95.3
	Wt. Of cup + dry soil, g	49.9	68.1	95.3
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	49.9	68.1	95.3
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.110	0.150	0.210

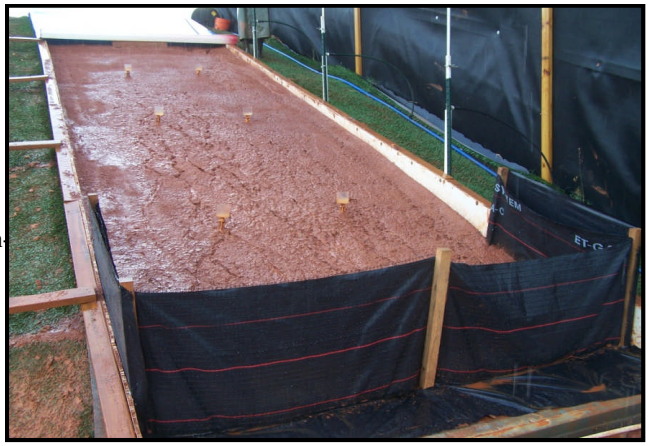
Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		658.3	794.5	953.4
Sub-Sample	Wt. Of cup + wet soil, g	658.3	794.5	953.4
	Wt. Of cup + dry soil, g	658.3	794.5	953.4
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	658.3	794.5	953.4
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		1.450	1.750	2.100

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		1702.5	1747.9	1952.2
Sub-Sample	Wt. Of cup + wet soil, g	1702.5	1747.9	1952.2
	Wt. Of cup + dry soil, g	1702.5	1747.9	1952.2
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	1702.5	1747.9	1952.2
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		3.750	3.850	4.300

TYPICAL TESTING PICTURES



Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 6-Jun-12 | Start Rain: 7:18 AM | End Rain: 7:38 AM

Sampling interval: 0:03 | End Runoff: 7:40 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: ET-GA-CSystem | Descr:. Erosion Tech - C System

Lot #: | Posts: Wood | Spacing: 4-ft

TOP OF SLOPE

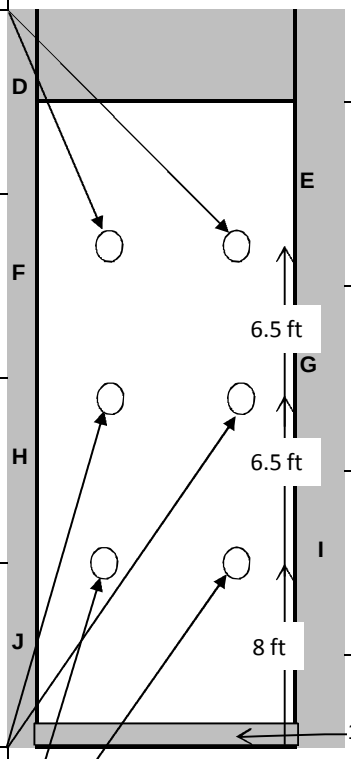
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 19 18 mm

i = 2.24 2.13 in/hr



x x
X P = 9 psi **D** x
x x
x **E** P = 9 psi **X**
x x
X P = 9 psi **F** x
x x
x **G** P = 9 psi x
x **X**
x P = 9 psi **H** x
X x
x **I** P = 9 psi x
x **X**
x P = 9 psi **J** x
X
x

d = 20 20 mm

i = 2.36 2.36 in/hr

w_{c2} = 22.6%

d = 19 17 mm

i = 2.24 2.01 in/hr

w_{c3} = 22.7%

x x **X** x

P = 9 psi

Temp. 63 deg

Hum. 91 %

Average Depth: **19** **mm**

Avg Rainfall Intensity: **2.22** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:21	X	X
7:24	X	X
7:27	X	X
7:30	X	X
7:33	X	X
7:36	X	X
7:39	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	40
2	250	35
3	250	31
4	250	30
5	250	30
6	250	29
7	250	28
8	250	28
9	250	26
10	250	23
11	250	20
12	250	12
13	250	10
14	250	8
15	250	6
16	250	5
17	250	5
18	250	4
19	250	4
20	250	4
21	250	12
22	250	0

NOTES:

Wind: 0 mph. Direction: S

Approx 9 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date:	6-Jun-12	Start Rain:	7:46 AM	End Rain:	8:06 AM
		Sampling interval:	0:03	End Runoff:	8:09 AM
		Rain Time (min):	20.00	Test Time (min):	23.00
Product:	ET-GA-Csystem	Descr:.	Erosion Tech - C System		
Lot #:		Posts:	Wood	Spacing:	4-ft

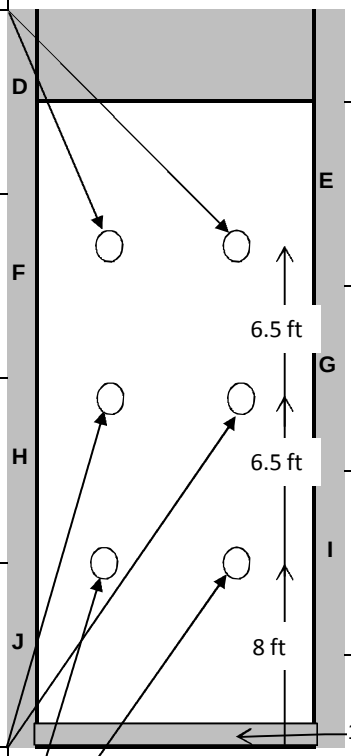
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d =	33	31	mm
i =	3.90	3.66	in/hr



x			x
X	P =	9 psi	D x
x			x
x			E P = 9 psi X
x			x
X	P =	9 psi	F x
x			x
x			G P = 9 psi x
x			X
x	P =	9 psi	H x
X			x
x			I P = 9 psi x
x			X
x	P =	9 psi	J x
X			
x			

d =	37	35	mm
i =	4.37	4.13	in/hr

x x **X** x

P = 9 psi

Temp. 65 deg

Hum. 89 %

w_{c2} = 22.6%

d =	36	34	mm
i =	4.25	4.02	in/hr

w_{c3} = 22.7%

Average Depth: 34 mm

Avg Rainfall Intensity: 4.06 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:49	X	X
7:52	X	X
7:55	X	X
7:58	X	X
8:01	X	X
8:04	X	X
8:07	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	34
2	3785	23
3	3785	19
4	3785	18
5	3785	19
6	3785	19
7	3785	18
8	3785	19
9	3785	18
10	3785	18
11	3785	18
12	3785	18
13	3785	17
14	3785	18
15	3785	17
16	3785	16
17	3785	17
18	3785	17
19	3785	17
20	3785	16
21	3785	36
23	3785	0

NOTES:
Wind: 0 mph. Direction: S
Approx 70 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date:	6-Jun-12	Start Rain:	8:13 AM	End Rain:	8:33 AM
		Sampling interval:	0:03	End Runoff:	8:43 AM
		Rain Time (min):	20.00	Test Time (min):	30.00
Product:	ET-GA-Csystem	Descr:.	Erosion Tech - C System		
Lot #:		Posts:	Wood	Spacing:	4-ft

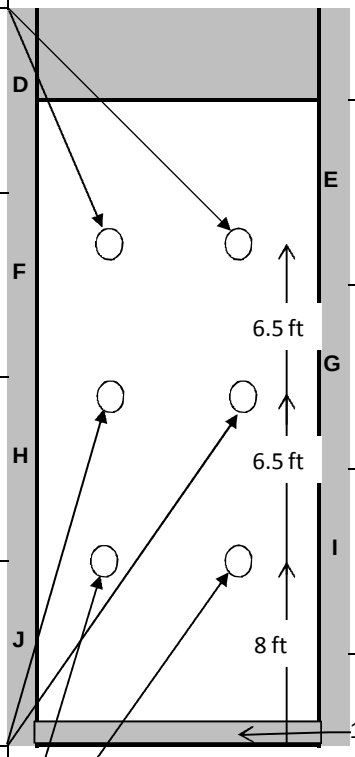
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d =	51	49	mm
i =	6.02	5.79	in/hr



x							x
X	P =	9	psi	D			x
x							x
x					E	P = 9 psi	X
x							x
X	P =	9	psi	F			x
x							x
x					G	P = 9 psi	x
x							X
x	P =	9	psi	H			x
X							x
x					I	P = 9 psi	x
x							X
x	P =	9	psi	J			x
X							
x							

d =	52	53	mm
i =	6.14	6.26	in/hr

w_{c2} = 22.6%

d =	50	50	mm
i =	5.91	5.91	in/hr

w_{c3} = 22.7%

x x **X** x

P = 9 psi

Temp. 79 deg

Hum. 67 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:16	X	X
8:19	X	X
8:22	X	X
8:25	X	X
8:28	X	X
8:31	X	X
8:34	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	31
2	3785	21
3	3785	19
4	3785	19
5	3785	18
6	3785	16
7	3785	13
8	3785	11
9	3785	10
10	3785	9
11	3785	9
12	3785	8
13	3785	7
14	3785	7
15	3785	7
16	3785	7
17	3785	7
18	3785	7
19	3785	6
20	3785	6
21	3785	16
30	3785	0

NOTES:

Wind: 0-1 mph. Direction: E

Approx 135 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date:	7-Jun-12	Start Rain:	6:53 AM	End Rain:	7:13 AM
		Sampling interval:	0:03	End Runoff:	7:15 AM
		Rain Time (min):	20.00	'est Time (min):	22.00
Product:	ET-GA-Csystem	Descr:.	Erosion Tech - C System		
Lot #:		Posts:	Wood	Spacing:	4-ft

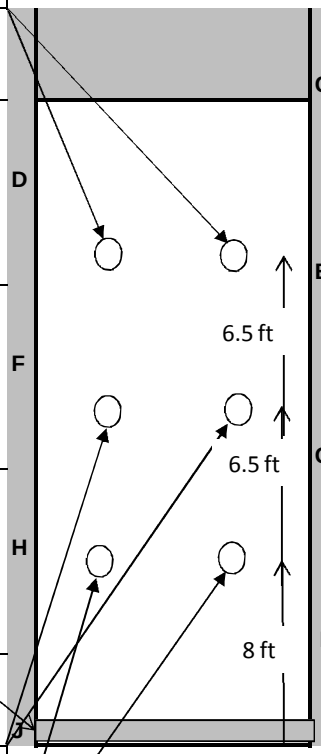
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d =	19	19	mm
i =	2.24	2.24	in/hr



x					x
			C	P = 9 psi	X
x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
1 ft Install Zone					X
		J			x

d =	20	17	mm
i =	2.36	2.01	in/hr

w_{c2} = 22.6%

x x X x

P = 9 psi

Temp. 63 deg

Hum. 87 %

d =	19	19	mm
i =	2.24	2.24	in/hr

w_{c3} = 22.7%

Average Depth: **19** **mm**

Avg Rainfall Intensity: **2.22** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
6:56	X	X
6:59	X	X
7:02	X	X
7:05	X	X
7:08	X	X
7:11	X	X
7:14	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	38
2	250	35
3	250	30
4	250	26
5	250	25
6	250	21
7	250	18
8	250	16
9	250	13
10	250	10
11	250	9
12	250	8
13	250	7
14	250	6
15	250	4
16	250	4
17	250	4
18	250	4
19	250	4
20	250	4
21	250	10
22	250	0

NOTES:

Wind: 0 mph. Direction: E

Approx 11 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 7-Jun-12 | Start Rain: 7:21 AM | End Rain: 7:41 AM

Sampling interval: 0:03 | End Runoff: 7:45 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: ET-GA-Csystem | Descr:. Erosion Tech - C System

Lot #: | Posts: Wood | Spacing: 4-ft

TOP OF SLOPE

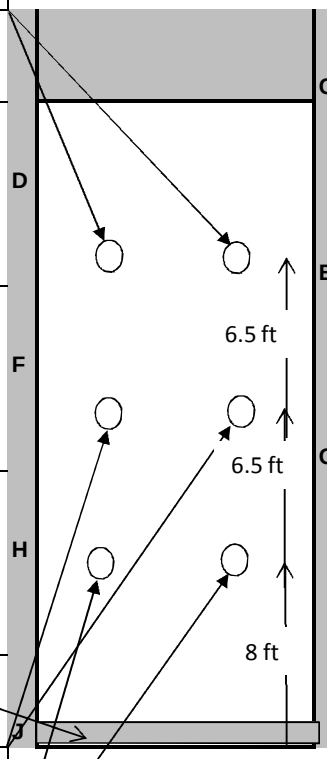
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 34 33 mm

i = 4.02 3.90 in/hr



x					x
			C	P = 9 psi	X
x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
					X
			J		x

d = 35 33 mm

i = 4.13 3.90 in/hr

w_{c2} = 22.6%

d = 34 34 mm

i = 4.02 4.02 in/hr

w_{c3} = 22.7%

x x **X** x

P = 9 psi

Temp. 64 deg

Hum. 87 %

Average Depth: 34 mm

Avg Rainfall Intensity: 4.00 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:24	X	X
7:27	X	X
7:30	X	X
7:33	X	X
7:36	X	X
7:39	X	X
7:42	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	34
2	3785	23
3	3785	19
4	3785	18
5	3785	19
6	3785	19
7	3785	18
8	3785	17
9	3785	18
10	3785	18
11	3785	18
12	3785	18
13	3785	17
14	3785	17
15	3785	17
16	3785	16
17	3785	17
18	3785	17
19	3785	17
20	3785	16
21	3785	34
24	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 71 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date: 7-Jun-12 | Start Rain: 7:50 AM | End Rain: 8:10 AM

Sampling interval: 0:03 | End Runoff: 8:20 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: ET-GA-Csystem | Descr:. Erosion Tech - C System

Lot #: | Posts: Wood | Spacing: 4-ft

TOP OF SLOPE

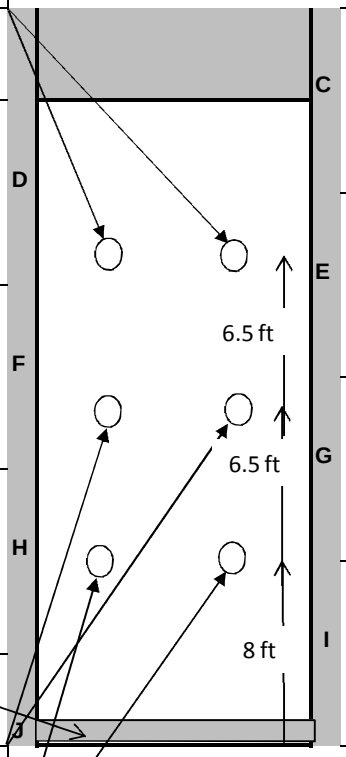
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 48 51 mm

i = 5.67 6.02 in/hr



C P = 9 psi X

X P = 9 psi D

E P = 9 psi X

X P = 9 psi F

G P = 9 psi x

x P = 9 psi H

I P = 9 psi x

d = 55 51 mm

i = 6.50 6.02 in/hr

w_{c2} = 22.6%

d = 50 52 mm

i = 5.91 6.14 in/hr

w_{c3} = 22.7%

P = 9 psi

Temp. 65 deg

Hum. 85 %

Average Depth: 51 mm

Avg Rainfall Intensity: 6.04 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:53	X	X
7:56	X	X
7:59	X	X
8:02	X	X
8:05	X	X
8:08	X	X
8:11	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	33
2	3785	20
3	3785	18
4	3785	18
5	3785	18
6	3785	16
7	3785	12
8	3785	11
9	3785	10
10	3785	10
11	3785	9
12	3785	8
13	3785	8
14	3785	7
15	3785	7
16	3785	6
17	3785	6
18	3785	6
19	3785	6
20	3785	6
21	3785	16
30	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 140 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date: 1-Jun-12 | Start Rain: 7:08 AM | End Rain: 7:28 AM

Sampling interval: 0:03 | End Runoff: 7:30 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: ET-GA-Csystem | Descr:. Erosion Tech - C System

Lot #: | Posts: Wood | Spacing: 4-ft

TOP OF SLOPE

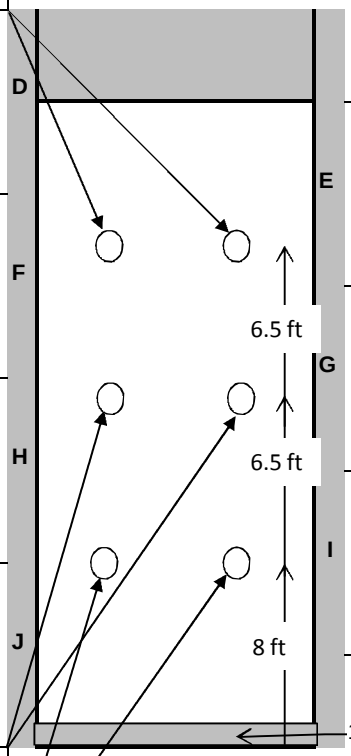
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 20 19 mm

i = 2.36 2.24 in/hr



x x
X P = 9 psi **D** x
x x
x **E** P = 9 psi **X**
x x
X P = 9 psi **F** x
x x
x **G** P = 9 psi x
x **X**
x P = 9 psi **H** x
X x
x **I** P = 9 psi x
x **X**
x P = 9 psi **J** x
X
x

d = 22 18 mm

i = 2.60 2.13 in/hr

w_{c2} = 22.6%

d = 19 17 mm

i = 2.24 2.01 in/hr

w_{c3} = 22.7%

x x **X** x

P = 9 psi

Temp. 66 deg

Hum. 95 %

Average Depth: **19** **mm**

Avg Rainfall Intensity: **2.26** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:11	X	X
7:14	X	X
7:17	X	X
7:20	X	X
7:23	X	X
7:26	X	X
7:29	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	40
2	250	38
3	250	33
4	250	32
5	250	30
6	250	28
7	250	28
8	250	27
9	250	26
10	250	22
11	250	19
12	250	14
13	250	10
14	250	9
15	250	7
16	250	5
17	250	5
18	250	5
19	250	5
20	250	4
21	250	12
22	250	0

NOTES: Test on Slope G1

Wind: 0 mph. Direction: S

Approx 8 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date:	1-Jun-12	Start Rain:	7:37 AM	End Rain:	7:57 AM
		Sampling interval:	0:03	End Runoff:	8:01 AM
		Rain Time (min):	20.00	Test Time (min):	24.00
Product:	ET-GA-Csystem	Descr:.	Erosion Tech - C System		
Lot #:		Posts:	Wood	Spacing:	4-ft

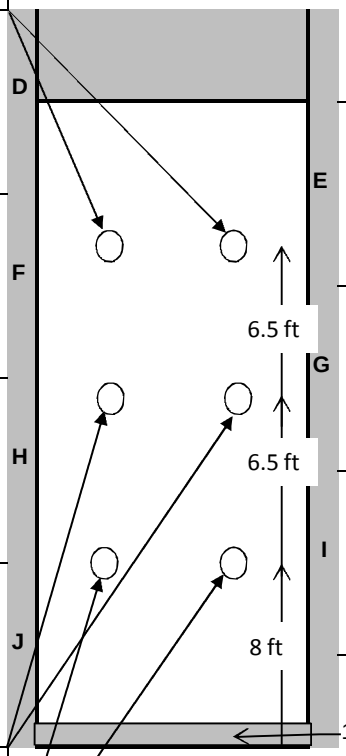
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

	34	31	mm
i =	4.02	3.66	in/hr



x							x
X	P =	9	psi	D			x
x							x
x					E	P = 9 psi	X
x							x
X	P =	9	psi	F			x
x							x
x					G	P = 9 psi	x
x							X
x	P =	9	psi	H			x
X							x
x					I	P = 9 psi	x
x							X
x	P =	9	psi	J			x
X							
x							

d =	35	35	mm
i =	4.13	4.13	in/hr
w_{c2} =	22.6%		
d =	37	34	mm
i =	4.37	4.02	in/hr
w_{c3} =	22.7%		

x x **X** x

P = 9 psi

Temp. 66 deg

Hum. 95 %

Average Depth: 34 mm

Avg Rainfall Intensity: 4.06 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:40	X	X
7:43	X	X
7:46	X	X
7:49	X	X
7:52	X	X
7:55	X	X
7:58	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	37
2	3785	33
3	3785	21
4	3785	21
5	3785	20
6	3785	20
7	3785	20
8	3785	19
9	3785	18
10	3785	17
11	3785	17
12	3785	18
13	3785	17
14	3785	17
15	3785	17
16	3785	17
17	3785	17
18	3785	16
19	3785	16
20	3785	16
21	3785	33
24	3785	0

NOTES:
Wind: 0 mph. Direction: S
Approx 69 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 1-Jun-12 | Start Rain: 8:08 AM | End Rain: 8:28 AM

Sampling interval: 0:03 | End Runoff: 8:38 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: ET-GA-Csystem | Descr:. Erosion Tech - C System

Lot #: | Posts: Wood | Spacing: 4-ft

TOP OF SLOPE

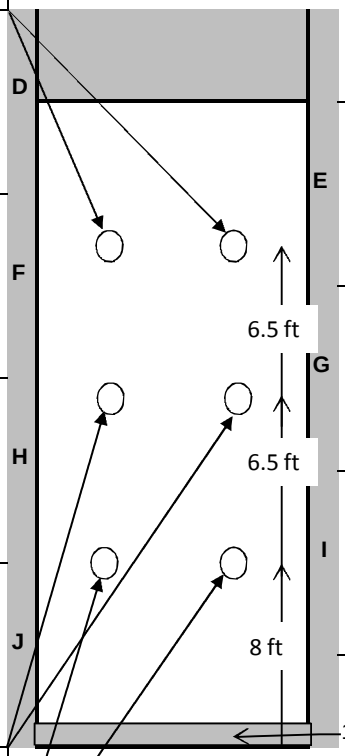
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 52 52 mm

i = 6.14 6.14 in/hr



x x

X P = 9 psi D x

x x

x E P = 9 psi X

x x

X P = 9 psi F x

x x

x G P = 9 psi x

x X

x P = 9 psi H x

X x

x I P = 9 psi x

x X

x P = 9 psi J x

X

x

d = 50 50 mm

i = 5.91 5.91 in/hr

w_{c2} = 22.6%

d = 51 52 mm

i = 6.02 6.14 in/hr

w_{c3} = 22.7%

x x X x

P = 9 psi

Temp. 67 deg

Hum. 94 %

Average Depth: 51 mm

Avg Rainfall Intensity: 6.04 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:11	X	X
8:14	X	X
8:17	X	X
8:20	X	X
8:23	X	X
8:26	X	X
8:29	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	39
2	3785	28
3	3785	18
4	3785	15
5	3785	13
6	3785	12
7	3785	10
8	3785	10
9	3785	10
10	3785	9
11	3785	9
12	3785	9
13	3785	8
14	3785	9
15	3785	8
16	3785	7
17	3785	7
18	3785	7
19	3785	7
20	3785	6
21	3785	26
30	3785	0

NOTES:

Wind: 0 mph. Direction: S

Approx 130 gallons collected.

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	37.1
2	20	38.2
3	20	42.4

ET-GA-CSystem Erosion Tech - C System

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	408	2-1	3.00	157	2-1	3.00	615
2-2	6.00	318	2-2	6.00	1522	2-2	6.00	1546
2-3	9.00	557	2-3	9.00	1693	2-3	9.00	1736
2-4	12.00	3458	2-4	12.00	3611	2-4	12.00	2920
2-5	15.00	2243	2-5	15.00	2471	2-5	15.00	2410
2-6	18.00	1854	2-6	18.00	2452	2-6	18.00	1769
2-7	21.00	1699	2-7	21.00	813	2-7	21.00	1806
avg		**1505**	avg		**1817**	avg		**1829**
4-1	3.00	3317	4-1	2.00	6378	4-1	2.00	3208
4-2	6.00	3503	4-2	4.00	3694	4-2	4.00	3184
4-3	9.00	3279	4-3	6.00	3211	4-3	6.00	3541
4-4	12.00	3052	4-4	8.00	2134	4-4	8.00	3550
4-5	15.00	2249	4-5	10.00	2225	4-5	10.00	2984
4-6	18.00	2012	4-6	12.00	1917	4-6	12.00	3105
4-7	21.00	1824	4-7	21.00	1247	4-7	21.00	759
avg		**2748**	avg		**2972**	avg		**2904**
6-1	3.00	2793	6-1	3.00	2295	6-1	3.00	3536
6-2	6.00	2360	6-2	6.00	2701	6-2	6.00	3391
6-3	9.00	2079	6-3	9.00	1927	6-3	9.00	2555
6-4	12.00	1543	6-4	12.00	2026	6-4	12.00	2593
6-5	15.00	1981	6-5	15.00	1685	6-5	15.00	2216
6-6	18.00	1747	6-6	18.00	1923	6-6	18.00	2344
6-7	21.00	1421	6-7	21.00	1513	6-7	21.00	1276
avg		**1989**	avg		**2010**	avg		**2559**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.22	in/hr	avg														
6-Jun-12		2-1	3.00	316.94	151.41	151.41	151.41	0.00	165.53	0.17	0.00	3.00	469.39	0.42	0.00	0.00
		2-2	6.00	334.24	147.78	147.78	147.78	0.00	186.46	0.19	0.00	6.00	439.11	0.40	0.00	0.00
		2-3	9.00	360.61	148.74	148.74	148.74	0.00	211.87	0.21	0.00	9.00	393.68	0.43	0.00	0.00
		2-4	12.00	356.30	156.11	147.98	147.71	270.00	208.32	0.21	1296.08	12.00	181.70	0.59	1296.08	0.01
		2-5	15.00	334.59	156.42	147.43	147.09	340.00	187.16	0.19	1816.63	15.00	90.85	1.37	1816.63	0.02
		2-6	18.00	349.30	156.16	150.56	150.12	440.00	198.74	0.20	2213.95	18.00	60.57	2.39	2213.95	0.04
		2-7	21.00	356.95	156.81	151.16	150.60	560.00	205.79	0.21	2721.22	21.00	181.70	2.48	2721.22	0.06
										AVG =	**1149.70**	22.00	0	0.50	2721.22	0.01
4.06	in/hr	avg									1149.70			**Total Solids Lost:**		**0.14**
6-Jun-12		4-1	3.00	339.68	157.52	149.43	148.61	820.00	190.25	0.19	4310.12	3.00	19.00	8.49	4310.12	0.31
		4-2	6.00	316.28	158.08	150.77	149.96	810.00	165.51	0.17	4893.96	6.00	19.00	9.64	4893.96	0.39
		4-3	9.00	329.98	161.21	149.56	148.67	890.00	180.42	0.18	4932.93	9.00	18.00	9.73	4932.93	0.40
		4-4	12.00	339.35	156.72	150.28	149.44	840.00	189.07	0.19	4442.80	12.00	18.00	10.00	4442.80	0.37
		4-5	15.00	331.61	154.65	148.03	147.14	890.00	183.58	0.18	4848.02	15.00	17.00	10.28	4848.02	0.42
		4-6	18.00	347.40	156.57	151.32	150.41	910.00	196.08	0.20	4640.96	18.00	17.00	10.80	4640.96	0.42
		4-7	21.00	355.04	157.23	151.92	150.97	950.00	203.12	0.20	4677.04	21.00	36.00	9.47	4677.04	0.37
										AVG =	**4677.98**	23.00	0.00	1.87	4677.04	0.07
6.00	in/hr	avg									4677.98			**Total Solids Lost:**		**2.75**
6-Jun-12		6-1	3.00	335.50	156.62	150.31	149.58	730.00	185.19	0.19	3941.90	3.00	19.00	9.18	3941.90	0.30
		6-2	6.00	338.80	156.93	149.39	148.67	720.00	189.41	0.19	3801.28	6.00	16.00	9.93	3801.28	0.31
		6-3	9.00	325.40	152.73	148.11	147.47	640.00	177.29	0.18	3609.90	9.00	10.00	14.85	3609.90	0.45
		6-4	12.00	345.20	152.95	148.39	147.56	830.00	196.81	0.20	4217.27	12.00	8.00	20.04	4217.27	0.71
		6-5	15.00	325.96	154.10	149.45	148.68	770.00	176.51	0.18	4362.36	15.00	7.00	25.14	4362.36	0.92
		6-6	18.00	330.10	157.02	151.75	151.17	580.00	178.35	0.18	3252.03	18.00	7.00	25.71	3252.03	0.70
		6-7	21.00	360.83	155.57	151.72	150.94	780.00	209.11	0.21	3730.09	21.00	16.00	24.68	3730.09	0.77
										AVG =	**3844.98**	30.00	0.00	5.00	3730.09	0.16
											3844.98			**Total Solids Lost:**		**4.31**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.22	in/hr	avg														
7-Jun-12		2-1	3.00	221.02	151.59	151.59	151.59	0.00	69.43	0.07	0.00	3.00	454.25	0.44	0.00	0.00
		2-2	6.00	363.30	160.35	151.14	150.93	210.00	212.16	0.21	989.82	6.00	317.97	0.47	989.82	0.00
		2-3	9.00	340.79	156.54	151.15	150.98	170.00	189.64	0.19	896.44	9.00	196.84	0.71	896.44	0.01
		2-4	12.00	369.90	162.51	150.06	149.28	780.00	219.84	0.22	3548.03	12.00	121.13	1.23	3548.03	0.04
		2-5	15.00	352.73	163.39	151.21	150.79	420.00	201.52	0.20	2084.16	15.00	60.57	1.93	2084.16	0.03
		2-6	18.00	349.53	171.08	152.28	151.83	450.00	197.25	0.20	2281.37	18.00	60.57	2.97	2281.37	0.06
		2-7	21.00	348.75	161.76	151.18	150.73	450.00	197.57	0.20	2277.67	21.00	151.42	2.55	2277.67	0.05
										AVG =	**1725.36**	22.00	0.00	0.50	2277.67	0.01
4.00	in/hr	avg									1725.36			**Total Solids Lost:**		**0.19**
7-Jun-12		4-1	3.00	336.63	166.73	151.84	151.74	100.00	184.79	0.18	541.15	3.00	19.00	8.49	541.15	0.04
		4-2	6.00	354.24	169.95	150.05	149.39	660.00	204.19	0.20	3232.28	6.00	19.00	9.64	3232.28	0.26
		4-3	9.00	343.50	161.53	148.12	147.34	780.00	195.38	0.20	3992.22	9.00	18.00	10.10	3992.22	0.34
		4-4	12.00	351.85	163.72	151.06	150.35	710.00	200.79	0.20	3536.03	12.00	18.00	10.00	3536.03	0.29
		4-5	15.00	347.43	159.39	150.12	149.48	640.00	197.31	0.20	3243.63	15.00	17.00	10.49	3243.63	0.28
		4-6	18.00	334.17	166.93	151.37	150.85	520.00	182.80	0.18	2844.64	18.00	17.00	10.80	2844.64	0.26
		4-7	21.00	359.10	160.77	147.81	147.11	700.00	211.29	0.21	3312.98	21.00	34.00	9.56	3312.98	0.26
										AVG =	**2957.56**	24.00	0.00	1.87	3312.98	0.05
6.04	in/hr	avg									2957.56			**Total Solids Lost:**		**1.79**
7-Jun-12		6-1	3.00	324.00	175.67	151.39	150.83	560.00	172.61	0.17	3244.31	3.00	18.00	9.06	3244.31	0.25
		6-2	6.00	321.55	168.90	148.48	147.94	540.00	173.07	0.17	3120.12	6.00	16.00	10.19	3120.12	0.27
		6-3	9.00	338.15	176.81	150.74	149.98	760.00	187.41	0.19	4055.28	9.00	10.00	15.22	4055.28	0.51
		6-4	12.00	341.90	164.03	151.47	150.54	930.00	190.43	0.19	4883.68	12.00	8.00	19.37	4883.68	0.79
		6-5	15.00	347.61	164.07	150.08	149.17	910.00	197.53	0.20	4606.90	15.00	7.00	24.07	4606.90	0.93
		6-6	18.00	331.98	172.33	150.84	150.06	780.00	181.14	0.18	4306.06	18.00	6.00	29.23	4306.06	1.05
		6-7	21.00	366.63	166.72	149.54	148.44	1100.00	217.09	0.22	5067.02	21.00	16.00	25.45	5067.02	1.08
										AVG =	**4183.34**	30.00	0.00	5.00	5067.02	0.21
											4183.34			**Total Solids Lost:**		**5.08**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.26	in/hr	avg														
1-Jun-12		2-1	3.00	238.97	151.41	151.41	151.41	0.00	87.56	0.09	0.00	3.00	499.67	0.41	0.00	0.00
		2-2	6.00	249.73	153.72	147.37	147.28	90.00	102.36	0.10	879.25	6.00	423.97	0.39	879.25	0.00
		2-3	9.00	355.27	152.07	148.42	148.14	280.00	206.85	0.21	1353.64	9.00	393.68	0.44	1353.64	0.00
		2-4	12.00	322.25	157.93	148.32	147.71	610.00	173.93	0.17	3507.16	12.00	211.98	0.60	3507.16	0.02
		2-5	15.00	366.88	157.52	148.36	147.39	970.00	218.52	0.22	4438.95	15.00	105.99	1.24	4438.95	0.05
		2-6	18.00	367.16	159.21	150.19	149.12	1070.00	216.97	0.22	4931.56	18.00	75.71	2.25	4931.56	0.09
		2-7	21.00	348.22	166.24	150.04	148.88	1160.00	198.18	0.20	5853.26	21.00	181.70	2.17	5853.26	0.11
										AVG =	**2994.83**	22.00	0.00	0.50	5853.26	0.02
4.06	in/hr	avg									2994.83			**Total Solids Lost:**		**0.29**
1-Jun-12		4-1	3.00	337.29	157.40	149.09	148.61	480.00	188.20	0.19	2550.48	3.00	21.00	7.18	2550.48	0.15
		4-2	6.00	321.00	162.02	150.29	149.76	530.00	170.71	0.17	3104.68	6.00	20.00	8.78	3104.68	0.23
		4-3	9.00	335.07	157.30	149.38	148.67	710.00	185.69	0.19	3823.58	9.00	18.00	9.32	3823.58	0.30
		4-4	12.00	313.52	157.65	150.03	149.44	590.00	163.49	0.16	3608.78	12.00	18.00	10.39	3608.78	0.31
		4-5	15.00	339.59	164.19	147.85	147.14	710.00	191.74	0.19	3702.93	15.00	17.00	10.49	3702.93	0.32
		4-6	18.00	352.65	160.31	150.85	150.04	810.00	201.80	0.20	4013.88	18.00	16.00	10.69	4013.88	0.36
		4-7	21.00	329.02	155.98	151.28	150.47	810.00	177.74	0.18	4557.22	21.00	33.00	9.95	4557.22	0.38
										AVG =	**3623.08**	24.00	0.00	1.87	4557.22	0.07
6.04	in/hr	avg									3623.08			**Total Solids Lost:**		**2.12**
1-Jun-12		6-1	3.00	349.42	166.78	150.32	149.58	740.00	199.10	0.20	3716.73	3.00	18.00	7.48	3716.73	0.23
		6-2	6.00	339.16	160.13	150.02	149.27	750.00	189.14	0.19	3965.32	6.00	12.00	12.72	3965.32	0.42
		6-3	9.00	322.95	159.88	148.15	147.49	660.00	174.80	0.17	3775.74	9.00	10.00	17.45	3775.74	0.55
		6-4	12.00	353.88	155.34	148.39	147.56	830.00	205.49	0.21	4039.13	12.00	9.00	19.65	4039.13	0.66
		6-5	15.00	340.42	154.39	149.55	148.62	930.00	190.87	0.19	4872.43	15.00	8.00	21.17	4872.43	0.86
		6-6	18.00	313.66	156.81	150.51	149.87	640.00	163.15	0.16	3922.77	18.00	7.00	25.14	3922.77	0.82
		6-7	21.00	343.38	156.90	150.05	149.14	910.00	193.33	0.19	4706.98	21.00	26.00	21.55	4706.98	0.85
										AVG =	**4142.73**	30.00	0.00	5.00	4706.98	0.20
											4142.73			**Total Solids Lost:**		**4.59**

6-Jun-12
Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.22 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	606	0.20	0.20	0.20	
2-2	2.00	530	0.11	0.11	0.30	
2-3	3.00	469	0.12	0.12	0.42	
2-4	4.00	454	0.13	0.13	0.55	
2-5	5.00	454	0.13	0.13	0.69	
2-6	6.00	439	0.13	0.13	0.82	
2-7	7.00	424	0.14	0.14	0.96	
2-8	8.00	424	0.14	0.14	1.10	
2-9	9.00	394	0.15	0.15	1.25	
2-10	10.00	348	0.16	0.16	1.41	
2-11	11.00	303	0.18	0.18	1.59	
2-12	12.00	182	0.25	0.25	1.84	
2-13	13.00	151	0.36	0.36	2.20	
2-14	14.00	121	0.44	0.44	2.64	
2-15	15.00	91	0.57	0.57	3.21	
2-16	16.00	76	0.72	0.72	3.93	
2-17	17.00	76	0.79	0.79	4.72	
2-18	18.00	61	0.88	0.88	5.60	
2-19	19.00	61	0.99	0.99	6.59	
2-20	20.00	61	0.99	0.99	7.58	
2-21	21.00	182	0.50	0.50	8.08	
2-end	22.00	0	0.50	0.50	8.57	
					8.57	**Total Collected Runoff (approx)**
4.06 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	34	3.53	3.53	3.53	
4-2	2	23	2.11	2.11	5.63	
4-3	3	19	2.86	2.86	8.49	
4-4	4	18	3.24	3.24	11.73	
4-5	5	19	3.24	3.24	14.98	
4-6	6	19	3.16	3.16	18.13	
4-7	7	18	3.24	3.24	21.38	
4-8	8	19	3.24	3.24	24.62	
4-9	9	18	3.24	3.24	27.86	
4-10	10	18	3.33	3.33	31.20	
4-11	11	18	3.33	3.33	34.53	
4-12	12	18	3.33	3.33	37.86	
4-13	13	17	3.43	3.43	41.29	
4-14	14	18	3.43	3.43	44.72	
4-15	15	17	3.43	3.43	48.15	
4-16	16	16	3.64	3.64	51.78	
4-17	17	17	3.64	3.64	55.42	
4-18	18	17	3.53	3.53	58.95	
4-19	19	17	3.53	3.53	62.48	
4-20	20	16	3.64	3.64	66.11	
4-21	21	36	2.31	2.31	68.42	
4-end	23.00	0	1.87	1.87	70.29	
					70.29	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	31	3.87	3.87	3.87	
6-2	2	21	2.31	2.31	6.18	
6-3	3	19	3.00	3.00	9.18	
6-4	4	19	3.16	3.16	12.34	
6-5	5	18	3.24	3.24	15.58	
6-6	6	16	3.53	3.53	19.11	
6-7	7	13	4.14	4.14	23.24	
6-8	8	11	5.00	5.00	28.24	
6-9	9	10	5.71	5.71	33.96	
6-10	10	9	6.32	6.32	40.27	
6-11	11	9	6.67	6.67	46.94	
6-12	12	8	7.06	7.06	54.00	
6-13	13	7	8.00	8.00	62.00	
6-14	14	7	8.57	8.57	70.57	
6-15	15	7	8.57	8.57	79.14	
6-16	16	7	8.57	8.57	87.71	
6-17	17	7	8.57	8.57	96.28	
6-18	18	7	8.57	8.57	104.85	
6-19	19	6	9.23	9.23	114.08	
6-20	20	6	10.00	10.00	124.08	
6-21	21	16	5.45	5.45	129.53	
6-end	30.00	0	5.00	5.00	134.53	
					134.53	**Total Collected Runoff (approx)**

7-Jun-12

Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.22 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	575	0.21	0.21	0.21	
2-2	2.00	530	0.11	0.11	0.32	
2-3	3.00	454	0.12	0.12	0.44	
2-4	4.00	394	0.14	0.14	0.58	
2-5	5.00	379	0.16	0.16	0.74	
2-6	6.00	318	0.17	0.17	0.91	
2-7	7.00	273	0.20	0.20	1.11	
2-8	8.00	242	0.23	0.23	1.34	
2-9	9.00	197	0.27	0.27	1.62	
2-10	10.00	151	0.34	0.34	1.96	
2-11	11.00	136	0.42	0.42	2.38	
2-12	12.00	121	0.47	0.47	2.85	
2-13	13.00	106	0.53	0.53	3.37	
2-14	14.00	91	0.61	0.61	3.98	
2-15	15.00	61	0.79	0.79	4.78	
2-16	16.00	61	0.99	0.99	5.77	
2-17	17.00	61	0.99	0.99	6.76	
2-18	18.00	61	0.99	0.99	7.75	
2-19	19.00	61	0.99	0.99	8.74	
2-20	20.00	61	0.99	0.99	9.73	
2-21	21.00	151	0.57	0.57	10.30	
2-end	22.00	0	0.50	0.50	10.79	
					10.79	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	34	3.53	3.53	3.53	
4-2	2	23	2.11	2.11	5.63	
4-3	3	19	2.86	2.86	8.49	
4-4	4	18	3.24	3.24	11.73	
4-5	5	19	3.24	3.24	14.98	
4-6	6	19	3.16	3.16	18.13	
4-7	7	18	3.24	3.24	21.38	
4-8	8	17	3.43	3.43	24.81	
4-9	9	18	3.43	3.43	28.23	
4-10	10	18	3.33	3.33	31.57	
4-11	11	18	3.33	3.33	34.90	
4-12	12	18	3.33	3.33	38.23	
4-13	13	17	3.43	3.43	41.66	
4-14	14	17	3.53	3.53	45.19	
4-15	15	17	3.53	3.53	48.72	
4-16	16	16	3.64	3.64	52.35	
4-17	17	17	3.64	3.64	55.99	
4-18	18	17	3.53	3.53	59.52	
4-19	19	17	3.53	3.53	63.05	
4-20	20	16	3.64	3.64	66.68	
4-21	21	34	2.40	2.40	69.08	
4-end	24	0	1.87	1.87	70.96	
					70.96	**Total Collected Runoff (approx)**
6.04 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	33	3.64	3.64	3.64	
6-2	2	20	2.26	2.26	5.90	
6-3	3	18	3.16	3.16	9.06	
6-4	4	18	3.33	3.33	12.39	
6-5	5	18	3.33	3.33	15.72	
6-6	6	16	3.53	3.53	19.25	
6-7	7	12	4.29	4.29	23.54	
6-8	8	11	5.22	5.22	28.75	
6-9	9	10	5.71	5.71	34.47	
6-10	10	10	6.00	6.00	40.47	
6-11	11	9	6.32	6.32	46.78	
6-12	12	8	7.06	7.06	53.84	
6-13	13	8	7.50	7.50	61.34	
6-14	14	7	8.00	8.00	69.34	
6-15	15	7	8.57	8.57	77.91	
6-16	16	6	9.23	9.23	87.14	
6-17	17	6	10.00	10.00	97.14	
6-18	18	6	10.00	10.00	107.14	
6-19	19	6	10.00	10.00	117.14	
6-20	20	6	10.00	10.00	127.13	
6-21	21	16	5.45	5.45	132.59	
6-end	30	0	5.00	5.00	137.59	
					137.59	**Total Collected Runoff (approx)**

1-Jun-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.26 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	606	0.20	0.20	0.20	
2-2	2.00	575	0.10	0.10	0.30	
2-3	3.00	500	0.11	0.11	0.41	
2-4	4.00	485	0.12	0.12	0.53	
2-5	5.00	454	0.13	0.13	0.66	
2-6	6.00	424	0.14	0.14	0.80	
2-7	7.00	424	0.14	0.14	0.94	
2-8	8.00	409	0.14	0.14	1.08	
2-9	9.00	394	0.15	0.15	1.23	
2-10	10.00	333	0.17	0.17	1.40	
2-11	11.00	288	0.19	0.19	1.59	
2-12	12.00	212	0.24	0.24	1.83	
2-13	13.00	151	0.33	0.33	2.16	
2-14	14.00	136	0.42	0.42	2.58	
2-15	15.00	106	0.50	0.50	3.07	
2-16	16.00	76	0.66	0.66	3.73	
2-17	17.00	76	0.79	0.79	4.53	
2-18	18.00	76	0.79	0.79	5.32	
2-19	19.00	76	0.79	0.79	6.11	
2-20	20.00	61	0.88	0.88	6.99	
2-21	21.00	182	0.50	0.50	7.49	
2-end	22.00	0	0.50	0.50	7.98	
					7.98	**Total Collected Runoff (approx)**
4.06 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	37	3.24	3.24	3.24	
4-2	2	33	1.71	1.71	4.96	
4-3	3	21	2.22	2.22	7.18	
4-4	4	21	2.86	2.86	10.04	
4-5	5	20	2.93	2.93	12.96	
4-6	6	20	3.00	3.00	15.96	
4-7	7	20	3.00	3.00	18.96	
4-8	8	19	3.08	3.08	22.04	
4-9	9	18	3.24	3.24	25.28	
4-10	10	17	3.43	3.43	28.71	
4-11	11	17	3.53	3.53	32.24	
4-12	12	18	3.43	3.43	35.67	
4-13	13	17	3.43	3.43	39.09	
4-14	14	17	3.53	3.53	42.62	
4-15	15	17	3.53	3.53	46.15	
4-16	16	17	3.53	3.53	49.68	
4-17	17	17	3.53	3.53	53.21	
4-18	18	16	3.64	3.64	56.85	
4-19	19	16	3.75	3.75	60.60	
4-20	20	16	3.75	3.75	64.35	
4-21	21	33	2.45	2.45	66.79	
4-end	24	0	1.87	1.87	68.67	
					68.67	**Total Collected Runoff (approx)**
6.04 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	39	3.08	3.08	3.08	
6-2	2	28	1.79	1.79	4.87	
6-3	3	18	2.61	2.61	7.48	
6-4	4	15	3.64	3.64	11.11	
6-5	5	13	4.29	4.29	15.40	
6-6	6	12	4.80	4.80	20.20	
6-7	7	10	5.45	5.45	25.65	
6-8	8	10	6.00	6.00	31.65	
6-9	9	10	6.00	6.00	37.65	
6-10	10	9	6.32	6.32	43.96	
6-11	11	9	6.67	6.67	50.63	
6-12	12	9	6.67	6.67	57.30	
6-13	13	8	7.06	7.06	64.35	
6-14	14	9	7.06	7.06	71.41	
6-15	15	8	7.06	7.06	78.47	
6-16	16	7	8.00	8.00	86.47	
6-17	17	7	8.57	8.57	95.04	
6-18	18	7	8.57	8.57	103.61	
6-19	19	7	8.57	8.57	112.18	
6-20	20	6	9.23	9.23	121.41	
6-21	21	26	3.75	3.75	125.16	
6-end	30	0	5.00	5.00	130.16	
					130.16	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	6-Jun-12	7-Jun-12	1-Jun-12
Avg Moisture Content:	**22.34%**	**22.00%**	**22.08%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	253.31	248.5	250.84
Wt. Of cup + dry soil, g	246.84	242.74	244.42
Wt. Of cup, g	217.11	217.11	217.17
Wt. Of dry soil, g	29.73	25.63	27.25
Wt. Of water, g	6.47	5.76	6.42
Water Content, w%	21.8%	22.5%	23.6%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	247.18	240.81	257.05
Wt. Of cup + dry soil, g	241.62	236.56	249.84
Wt. Of cup, g	216.97	216.54	216.99
Wt. Of dry soil, g	24.65	20.02	32.85
Wt. Of water, g	5.56	4.25	7.21
Water Content, w%	22.6%	21.2%	21.9%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	256.74	244.17	247.22
Wt. Of cup + dry soil, g	249.4	239.23	242.05
Wt. Of cup, g	217.08	217.08	217.13
Wt. Of dry soil, g	32.32	22.15	24.92
Wt. Of water, g	7.34	4.94	5.17
Water Content, w%	22.7%	22.3%	20.7%

Soil Loss Data

Slope No.	1	2	3
Test Date:	6-Jun-12	7-Jun-12	1-Jun-12
Total Soil Loss	**6.70**	**6.94**	**6.45**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		18.2	13.6	22.7
Sub-Sample	Wt. Of cup + wet soil, g	18.2	13.6	22.7
	Wt. Of cup + dry soil, g	18.2	13.6	22.7
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	18.2	13.6	22.7
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.040	0.030	0.050

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		862.6	885.3	998.8
Sub-Sample	Wt. Of cup + wet soil, g	862.6	885.3	998.8
	Wt. Of cup + dry soil, g	862.6	885.3	998.8
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	862.6	885.3	998.8
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		1.900	1.950	2.200

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		2161.0	2251.8	1906.8
Sub-Sample	Wt. Of cup + wet soil, g	2161.0	2251.8	1906.8
	Wt. Of cup + dry soil, g	2161.0	2251.8	1906.8
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	2161	2251.8	1906.8
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		4.760	4.960	4.200

TYPICAL TESTING PICTURES



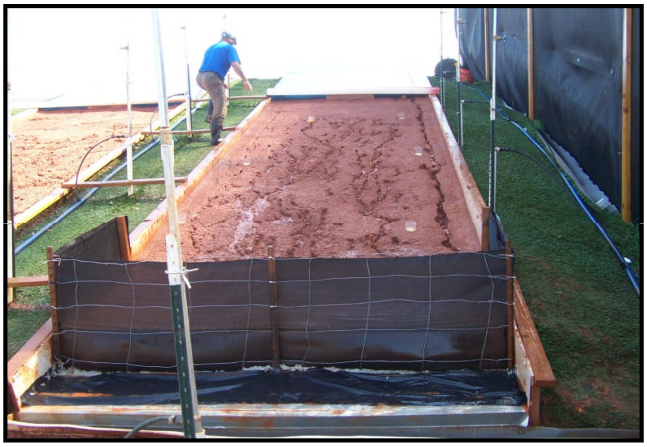
Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 18-Jun-12 | Start Rain: 9:07 AM | End Rain: 9:27 AM

Sampling interval: 0:03 | End Runoff: 9:29 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: GTF 400EO | Descr:. Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

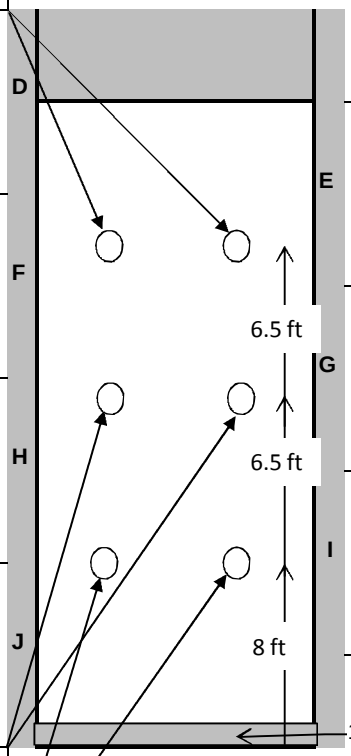
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.7%

d = 17 18 mm

i = 2.01 2.13 in/hr



x x

X P = 9 psi **D** x

x x

x **E** P = 9 psi **X**

x x

X P = 9 psi **F** x

x x

x **G** P = 9 psi x

x **X**

x P = 9 psi **H** x

X x

x **I** P = 9 psi x

x **X**

x P = 9 psi **J** x

X

x

d = 18 17 mm

i = 2.13 2.01 in/hr

x x **X** x

P = 9 psi

Temp. 72 deg

Hum. 76 %

w_{c2} = 23.5%

d = 17 17 mm

i = 2.01 2.01 in/hr

w_{c3} = 22.6%

Average Depth: 17 mm

Avg Rainfall Intensity: 2.05 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:10	X	X
9:13	X	X
9:16	X	X
9:19	X	X
9:22	X	X
9:25	X	X
9:28	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	45
2	250	45
3	250	37
4	250	37
5	250	28
6	250	28
7	250	20
8	250	20
9	250	20
10	250	20
11	250	18
12	250	18
13	250	17
14	250	17
15	250	16
16	250	8
17	250	6
18	250	5
19	250	4
20	250	3
21	250	14
22	250	0

NOTES:
Wind: 0 mph. Direction: W
Approx 8 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 18-Jun-12 | Start Rain: 9:35 AM | End Rain: 9:55 AM

Sampling interval: 0:03 | End Runoff: 9:58 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: GTF 400EO | Descr:. Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

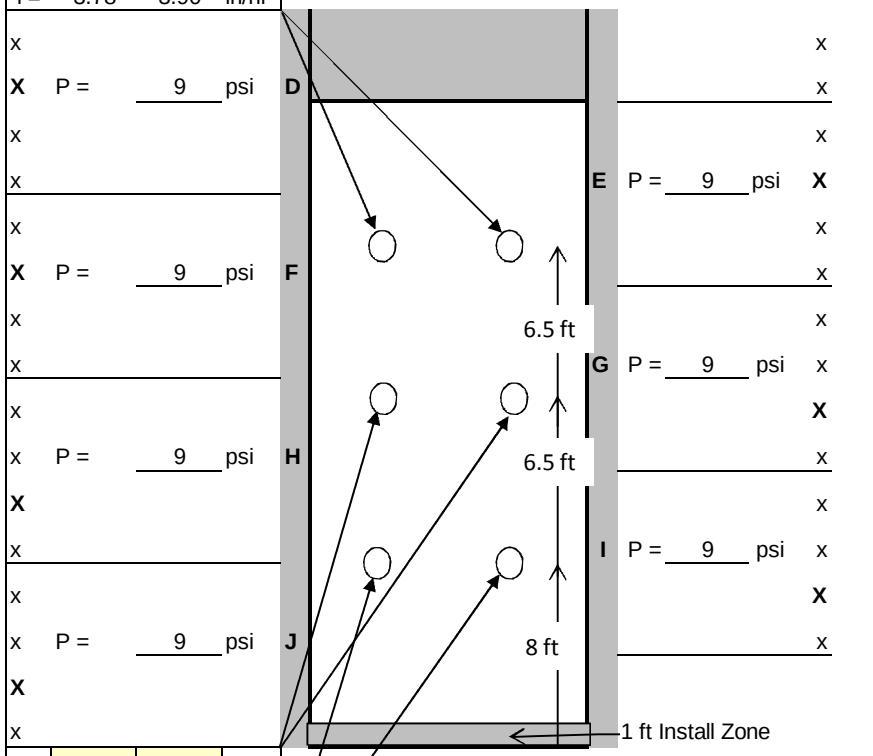
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.7%

d = 32 33 mm

i = 3.78 3.90 in/hr



d = 36 34 mm

i = 4.25 4.02 in/hr

w_{c2} = 23.5%

d = 35 34 mm

i = 4.13 4.02 in/hr

w_{c3} = 22.6%

x x X x

P = 9 psi

Temp. 72 deg

Hum. 76 %

Average Depth: 34 mm

Avg Rainfall Intensity: 4.02 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:38	X	X
9:41	X	X
9:44	X	X
9:47	X	X
9:50	X	X
9:53	X	X
9:56	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	43
2	3785	35
3	3785	29
4	3785	27
5	3785	26
6	3785	22
7	3785	18
8	3785	16
9	3785	16
10	3785	15
11	3785	15
12	3785	14
13	3785	13
14	3785	13
15	3785	13
16	3785	13
17	3785	12
18	3785	12
19	3785	12
20	3785	12
21	3785	18
23	3785	0

NOTES:
Wind: 0 mph. Direction: W
Approx 75 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 18-Jun-12 | Start Rain: 10:06 AM | End Rain: 10:26 AM

Sampling interval: 0:03 | End Runoff: 10:36 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: GTF 400EO | Descr:. Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

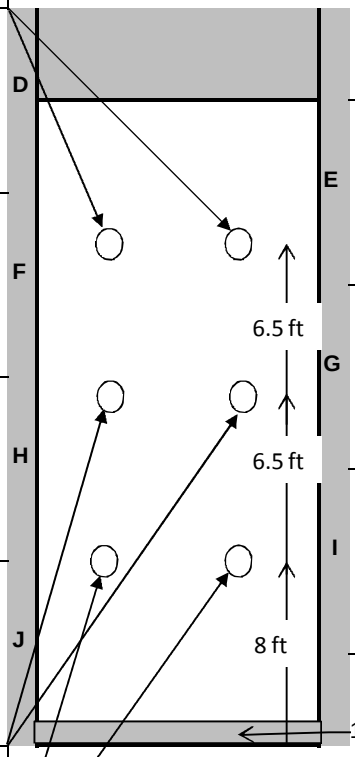
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.7%

d = 48 52 mm

i = 5.67 6.14 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 50 51 mm

i = 5.91 6.02 in/hr

w_{c2} = 23.5%

d = 54 50 mm

i = 6.38 5.91 in/hr

w_{c3} = 22.6%

x x **X** x

P = 9 psi

Temp. 74 deg

Hum. 73 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
10:09	X	X
10:12	X	X
10:15	X	X
10:18	X	X
10:21	X	X
10:24	X	X
10:27	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	50
2	3785	21
3	3785	9
4	3785	9
5	3785	9
6	3785	9
7	3785	9
8	3785	8
9	3785	8
10	3785	8
11	3785	8
12	3785	8
13	3785	8
14	3785	8
15	3785	7
16	3785	7
17	3785	7
18	3785	7
19	3785	6
20	3785	6
21	3785	13
30	3785	0

NOTES:

Wind: 0 mph. Direction: W

Approx 150 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date: 18-Jun-12 | Start Rain: 7:06 AM | End Rain: 7:26 AM

Sampling interval: 0:03 | End Runoff: 7:28 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: GTF 400EO | Descr:. Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

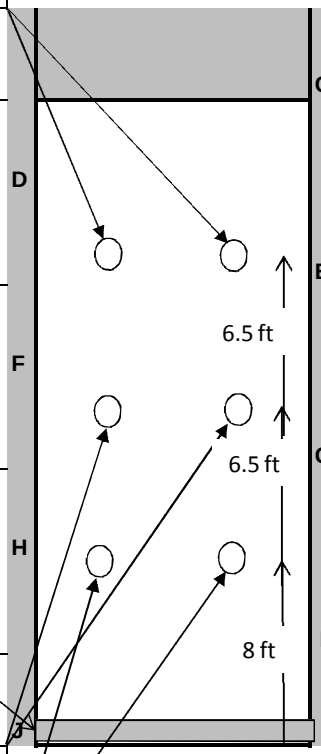
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.7%

d = 18 17 mm

i = 2.13 2.01 in/hr



x					x
	C	P = 9 psi			X
x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
					X
		J			x

d = 18 18 mm

i = 2.13 2.13 in/hr

w_{c2} = 23.5%

d = 17 18 mm

i = 2.01 2.13 in/hr

w_{c3} = 22.6%

x x X x

P = 9 psi

Temp. 67 deg

Hum. 83 %

Average Depth: 18 mm

Avg Rainfall Intensity: 2.09 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:09	X	X
7:12	X	X
7:15	X	X
7:18	X	X
7:21	X	X
7:24	X	X
7:27	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	30
2	250	28
3	250	26
4	250	25
5	250	17
6	250	12
7	250	9
8	250	8
9	250	8
10	250	8
11	250	8
12	250	7
13	250	7
14	250	6
15	250	5
16	250	5
17	250	5
18	250	5
19	250	5
20	250	5
21	250	15
22	250	0

NOTES:

Wind: 0 mph. Direction: W

Approx 15+A8 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 18-Jun-12 | Start Rain: 7:37 AM | End Rain: 7:57 AM

Sampling interval: 0:03 | End Runoff: 8:00 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: GTF 400EO | Descr:. Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

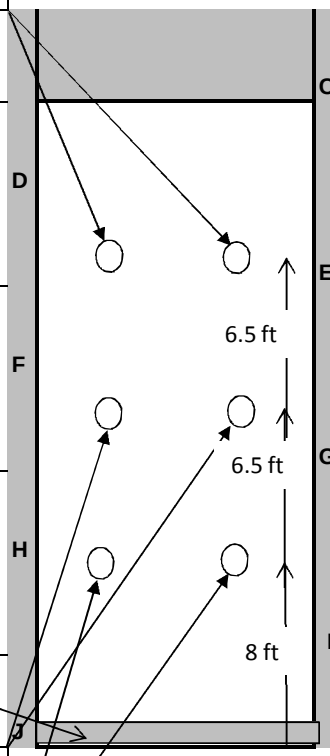
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.7%

d = 33 33 mm

i = 3.90 3.90 in/hr



				C	P = 9 psi	X
x				D	P = 9 psi	X
x				E	P = 9 psi	X
x				F	P = 9 psi	X
x				G	P = 9 psi	x
x				H	P = 9 psi	X
x				I	P = 9 psi	x
x				J		x

x x **X** x

P = 9 psi

d = 33 35 mm

i = 3.90 4.13 in/hr

w_{c2} = 23.5%

d = 33 34 mm

i = 3.90 4.02 in/hr

w_{c3} = 22.6%

Temp. 68 deg

Hum. 82 %

Average Depth: 34 mm

Avg Rainfall Intensity: 3.96 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:40	X	X
7:43	X	X
7:46	X	X
7:49	X	X
7:52	X	X
7:55	X	X
7:58	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	9
2	3785	34
3	3785	27
4	3785	22
5	3785	17
6	3785	17
7	3785	16
8	3785	16
9	3785	16
10	3785	16
11	3785	15
12	3785	15
13	3785	15
14	3785	15
15	3785	14
16	3785	14
17	3785	14
18	3785	14
19	3785	13
20	3785	13
21	3785	22
23	3785	0

NOTES:
Wind: 0 mph. Direction: W
Approx 75 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date:	18-Jun-12	Start Rain:	8:06 AM	End Rain:	8:26 AM
		Sampling interval:	0:03	End Runoff:	8:36 AM
		Rain Time (min):	20.00	Test Time (min):	30.00
Product:	GTF 400EO	Descr:.	Type C Silt Fence		
Lot #:		Posts:	Steel	Spacing:	4-ft

TOP OF SLOPE

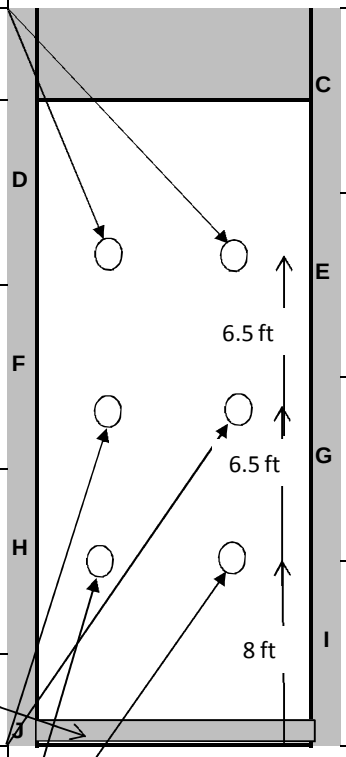
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.7%

d = 52 51 mm

i = 6.14 6.02 in/hr



x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
C P = 9 psi **X**
x
x

x
E P = 9 psi **X**
x
x

x
G P = 9 psi x
X
x

x
I P = 9 psi x
X
x

x x **X** x

P = 9 psi

Temp. 68 deg

Hum. 81 %

d = 50 50 mm

i = 5.91 5.91 in/hr

w_{c2} = 23.5%

d = 51 53 mm

i = 6.02 6.26 in/hr

w_{c3} = 22.6%

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.04** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:09	X	X
8:12	X	X
8:15	X	X
8:18	X	X
8:21	X	X
8:24	X	X
8:27	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	28
2	3785	12
3	3785	11
4	3785	9
5	3785	9
6	3785	9
7	3785	9
8	3785	9
9	3785	9
10	3785	9
11	3785	8
12	3785	8
13	3785	8
14	3785	8
15	3785	8
16	3785	7
17	3785	7
18	3785	7
19	3785	7
20	3785	7
21	3785	15
30	3785	0

NOTES:

Wind: 0 mph. Direction: W

Approx 150 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date:	20-Jun-12	Start Rain:	7:14 AM	End Rain:	7:34 AM
		Sampling interval:	0:03	End Runoff:	7:36 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	GTF 400EO	Descr:.	Type C Silt Fence		
Lot #:		Posts:	Steel	Spacing:	4-ft

TOP OF SLOPE

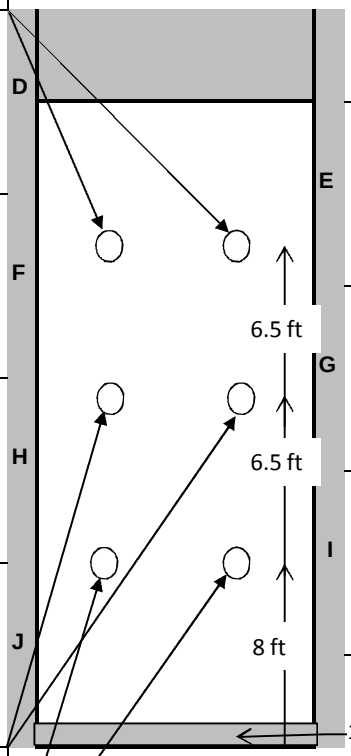
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.7%

d = 17 17 mm

i = 2.01 2.01 in/hr



x							x	
X	P =	9	psi	D			x	
x							x	
x					E	P = 9 psi	X	
x							x	
X	P =	9	psi	F			x	
x							x	
x					G	P = 9 psi	x	
x							X	
x	P =	9	psi	H			x	
X							x	
x					I	P = 9 psi	x	
x							X	
x	P =	9	psi	J			x	
X								
x								

d = 18 18 mm

i = 2.13 2.13 in/hr

w_{c2} = 23.5%

d = 17 18 mm

i = 2.01 2.13 in/hr

w_{c3} = 22.6%

x x **X** x

P = 9 psi

Temp. 68 deg

Hum. 93 %

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.07** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:17	X	X
7:20	X	X
7:23	X	X
7:26	X	X
7:29	X	X
7:32	X	X
7:35	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	43
2	250	37
3	250	31
4	250	27
5	250	25
6	250	25
7	250	25
8	250	24
9	250	21
10	250	21
11	250	19
12	250	11
13	250	9
14	250	7
15	250	6
16	250	5
17	250	5
18	250	5
19	250	3
20	250	3
21	250	13
22	250	0

NOTES: SLOPE G2

Wind: 0 mph. Direction: S

Approx 10 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date:	20-Jun-12	Start Rain:	7:42 AM	End Rain:	8:02 AM
		Sampling interval:	0:03	End Runoff:	8:06 AM
		Rain Time (min):	20.00	Test Time (min):	24.00
Product:	GTF 400EO	Descr:.	Type C Silt Fence		
Lot #:		Posts:	Steel	Spacing:	4-ft

TOP OF SLOPE

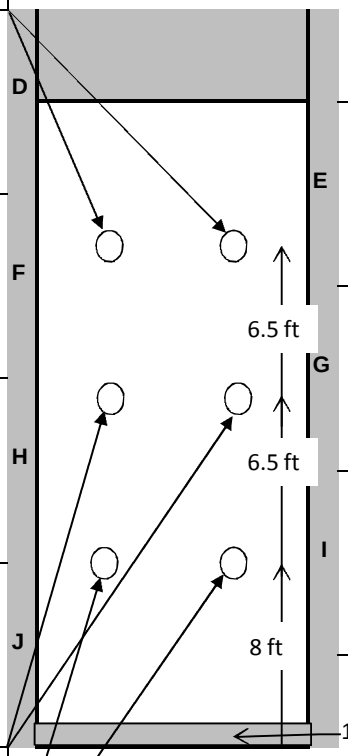
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.7%

d = 35 33 mm

i = 4.13 3.90 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 32 35 mm

i = 3.78 4.13 in/hr

w_{c2} = 23.5%

d = 33 35 mm

i = 3.90 4.13 in/hr

w_{c3} = 22.6%

x x **X** x

P = 9 psi Temp. 70 deg

Hum. 92 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:45	X	X
7:48	X	X
7:51	X	X
7:54	X	X
7:57	X	X
8:00	X	X
8:03	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	8
2	3785	28
3	3785	23
4	3785	17
5	3785	17
6	3785	17
7	3785	17
8	3785	15
9	3785	15
10	3785	15
11	3785	14
12	3785	14
13	3785	14
14	3785	13
15	3785	13
16	3785	13
17	3785	12
18	3785	12
19	3785	12
20	3785	12
21	3785	22
24	3785	0

NOTES: SLOPE G2

Wind: 0 mph. Direction: S

Approx 80 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 20-Jun-12 | Start Rain: 8:10 AM | End Rain: 8:30 AM

Sampling interval: 0:03 | End Runoff: 8:40 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: GTF 400EO | Descr:. Type C Silt Fence

Lot #: | Posts: Steel | Spacing: 4-ft

TOP OF SLOPE

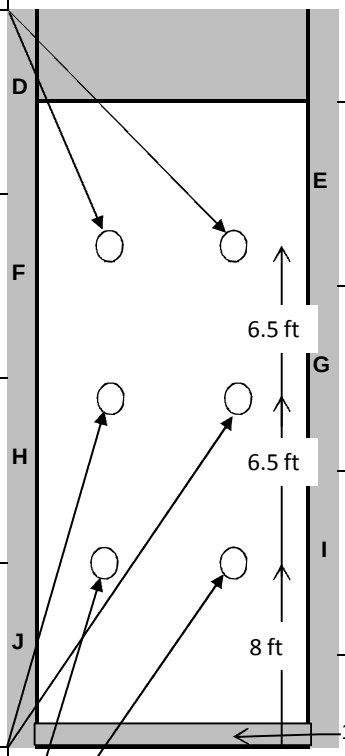
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.7%

d = 50 51 mm

i = 5.91 6.02 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 51 49 mm

i = 6.02 5.79 in/hr

w_{c2} = 23.5%

d = 51 52 mm

i = 6.02 6.14 in/hr

w_{c3} = 22.6%

x x **X** x

P = 9 psi

Temp. 60 deg

Hum. 87 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **5.98** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:13	X	X
8:16	X	X
8:19	X	X
8:22	X	X
8:25	X	X
8:28	X	X
8:31	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	27
2	3785	9
3	3785	9
4	3785	9
5	3785	9
6	3785	9
7	3785	9
8	3785	9
9	3785	8
10	3785	8
11	3785	8
12	3785	8
13	3785	8
14	3785	7
15	3785	8
16	3785	7
17	3785	7
18	3785	7
19	3785	7
20	3785	7
21	3785	19
30	3785	0

NOTES: SLOPE G2+A8

Wind: 0 mph. Direction: S

Approx 150 gallons collected.

GTF 400EO Type C Silt Fence

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	22.3
2	20	33.7
3	20	33.2

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	1070	2-1	3.00	1009	2-1	3.00	568
2-2	6.00	779	2-2	6.00	2301	2-2	6.00	460
2-3	9.00	615	2-3	9.00	6668	2-3	9.00	2855
2-4	12.00	1603	2-4	12.00	3356	2-4	12.00	994
2-5	15.00	1647	2-5	15.00	2667	2-5	15.00	3408
2-6	18.00	1698	2-6	18.00	2094	2-6	18.00	2658
2-7	21.00	1107	2-7	21.00	1440	2-7	21.00	1061
avg		**1217**	avg		**2791**	avg		**1715**
4-1	3.00	3325	4-1	2.00	3755	4-1	2.00	2694
4-2	6.00	2832	4-2	4.00	2790	4-2	4.00	2193
4-3	9.00	3163	4-3	6.00	2266	4-3	6.00	2616
4-4	12.00	1762	4-4	8.00	2827	4-4	8.00	3373
4-5	15.00	1682	4-5	10.00	2804	4-5	10.00	2821
4-6	18.00	1538	4-6	12.00	2869	4-6	12.00	2525
4-7	21.00	1297	4-7	21.00	943	4-7	21.00	1191
avg		**2228**	avg		**2608**	avg		**2488**
6-1	3.00	2035	6-1	3.00	2639	6-1	3.00	2744
6-2	6.00	1815	6-2	6.00	2863	6-2	6.00	2420
6-3	9.00	1801	6-3	9.00	2303	6-3	9.00	2560
6-4	12.00	2204	6-4	12.00	2102	6-4	12.00	2404
6-5	15.00	2240	6-5	15.00	1626	6-5	15.00	2323
6-6	18.00	2077	6-6	18.00	2016	6-6	18.00	2276
6-7	21.00	923	6-7	21.00	1269	6-7	21.00	1687
avg		**1871**	avg		**2117**	avg		**2345**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.05	in/hr	avg														
18-Jun-12		2-1	3.00	222.05	154.60	151.46	151.41	50.00	70.59	0.07	708.32	3.00	560.24	0.36	708.32	0.00
		2-2	6.00	266.52	151.54	147.78	147.78	0.00	118.74	0.12	0.00	6.00	423.97	0.37	0.00	0.00
		2-3	9.00	203.97	151.90	149.76	149.76	0.00	54.21	0.05	0.00	9.00	302.83	0.56	0.00	0.00
		2-4	12.00	327.33	154.24	147.95	147.71	240.00	179.38	0.18	1337.94	12.00	272.55	0.63	1337.94	0.01
		2-5	15.00	357.39	155.21	150.10	147.09	3010.00	207.29	0.21	14520.72	15.00	242.27	0.70	14520.72	0.08
		2-6	18.00	367.27	156.90	150.59	150.12	470.00	216.68	0.22	2169.10	18.00	75.71	1.62	2169.10	0.03
		2-7	21.00	323.51	157.53	150.69	150.68	10.00	172.82	0.17	57.86	21.00	211.98	2.48	57.86	0.00
										AVG =	**2684.85**	22.00	0	0.66	57.86	0.00
4.02	in/hr	avg									2684.85			**Total Solids Lost:**		**0.12**
18-Jun-12		4-1	3.00	318.04	156.72	149.50	148.61	890.00	168.54	0.17	5280.65	3.00	29.00	6.20	5280.65	0.27
		4-2	6.00	333.01	154.53	150.93	149.76	1170.00	182.08	0.18	6425.75	6.00	22.00	6.91	6425.75	0.37
		4-3	9.00	335.00	156.15	149.65	148.67	980.00	185.35	0.19	5287.29	9.00	16.00	10.28	5287.29	0.45
		4-4	12.00	338.67	155.33	149.61	149.44	170.00	189.06	0.19	899.19	12.00	14.00	12.01	899.19	0.09
		4-5	15.00	341.87	151.76	147.91	147.14	770.00	193.96	0.19	3969.89	15.00	13.00	13.67	3969.89	0.45
		4-6	18.00	340.61	154.47	150.91	150.07	840.00	189.70	0.19	4428.04	18.00	12.00	14.41	4428.04	0.53
		4-7	21.00	356.51	152.67	151.42	150.97	450.00	205.09	0.21	2194.16	21.00	18.00	14.00	2194.16	0.26
										AVG =	**4069.28**	23.00	0.00	2.50	2194.16	0.05
6.00	in/hr	avg									4069.28			**Total Solids Lost:**		**2.47**
18-Jun-12		6-1	3.00	335.25	155.00	149.89	149.58	310.00	185.36	0.19	1672.42	3.00	9.00	8.09	1672.42	0.11
		6-2	6.00	339.15	155.25	149.58	148.27	1310.00	189.57	0.19	6910.38	6.00	9.00	20.00	6910.38	1.15
		6-3	9.00	342.05	152.77	147.95	147.47	480.00	194.10	0.19	2472.95	9.00	8.00	21.22	2472.95	0.44
		6-4	12.00	342.16	153.02	148.01	147.56	450.00	194.15	0.19	2317.80	12.00	8.00	22.50	2317.80	0.44
		6-5	15.00	322.41	154.19	149.08	148.41	670.00	173.33	0.17	3865.46	15.00	7.00	23.00	3865.46	0.74
		6-6	18.00	335.64	154.61	152.22	151.17	1050.00	183.42	0.18	5724.57	18.00	7.00	25.71	5724.57	1.23
		6-7	21.00	350.74	156.42	151.96	150.94	1020.00	198.78	0.20	5131.30	21.00	13.00	25.54	5131.30	1.09
										AVG =	**4013.55**	30.00	0.00	5.00	5131.30	0.21
											4013.55			**Total Solids Lost:**		**5.42**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.09	in/hr	avg														
18-Jun-12		2-1	3.00	343.14	155.48	151.61	151.59	20.00	191.53	0.19	104.42	3.00	393.68	0.55	104.42	0.00
		2-2	6.00	355.73	158.15	151.27	150.82	450.00	204.46	0.20	2200.92	6.00	181.70	0.62	2200.92	0.01
		2-3	9.00	350.40	161.07	151.86	150.98	880.00	198.54	0.20	4432.36	9.00	121.13	1.34	4432.36	0.05
		2-4	12.00	351.03	158.60	149.91	149.28	630.00	201.12	0.20	3132.46	12.00	105.99	1.52	3132.46	0.04
		2-5	15.00	371.42	158.83	151.33	150.79	540.00	220.09	0.22	2453.54	15.00	75.71	1.90	2453.54	0.04
		2-6	18.00	365.93	173.08	151.38	150.75	630.00	214.55	0.21	2936.38	18.00	75.71	2.38	2936.38	0.06
		2-7	21.00	358.25	157.41	151.09	150.76	330.00	207.16	0.21	1592.97	21.00	227.12	1.98	1592.97	0.03
										AVG =	**2407.58**	22.00	0.00	0.40	1592.97	0.01
3.96	in/hr	avg									2407.58			**Total Solids Lost:**		**0.23**
18-Jun-12		4-1	3.00	329.15	160.11	150.29	149.37	920.00	178.86	0.18	5143.69	3.00	27.00	3.55	5143.69	0.15
		4-2	6.00	322.32	159.14	152.47	151.34	1130.00	169.85	0.17	6652.93	6.00	17.00	9.05	6652.93	0.50
		4-3	9.00	332.65	159.42	148.03	147.30	730.00	184.62	0.18	3954.07	9.00	16.00	11.14	3954.07	0.37
		4-4	12.00	347.46	159.25	150.73	150.25	480.00	196.73	0.20	2439.89	12.00	15.00	11.62	2439.89	0.24
		4-5	15.00	337.61	158.72	149.93	149.48	450.00	187.68	0.19	2397.70	15.00	14.00	12.14	2397.70	0.24
		4-6	18.00	340.75	173.46	149.70	147.98	1720.00	191.05	0.19	9002.88	18.00	14.00	12.86	9002.88	0.97
		4-7	21.00	335.86	155.71	148.90	148.08	820.00	186.96	0.19	4385.96	21.00	22.00	12.49	4385.96	0.46
										AVG =	**4853.87**	23.00	0.00	2.31	4385.96	0.08
6.04	in/hr	avg									4853.87			**Total Solids Lost:**		**3.01**
18-Jun-12		6-1	3.00	326.83	157.15	151.28	150.83	450.00	175.55	0.18	2563.37	3.00	11.00	12.50	2563.37	0.27
		6-2	6.00	333.50	153.63	148.39	147.99	400.00	185.11	0.19	2160.88	6.00	9.00	19.33	2160.88	0.35
		6-3	9.00	329.53	156.81	149.87	148.93	940.00	179.66	0.18	5232.11	9.00	9.00	20.00	5232.11	0.87
		6-4	12.00	318.78	158.39	151.07	150.30	770.00	167.71	0.17	4591.26	12.00	8.00	21.22	4591.26	0.81
		6-5	15.00	340.72	163.30	151.26	150.20	1060.00	189.46	0.19	5594.85	15.00	8.00	22.50	5594.85	1.05
		6-6	18.00	327.21	155.40	148.33	147.57	760.00	178.88	0.18	4248.66	18.00	7.00	25.14	4248.66	0.89
		6-7	21.00	369.88	157.48	149.10	147.61	1490.00	220.78	0.22	6748.80	21.00	15.00	22.59	6748.80	1.27
										AVG =	**4448.56**	30.00	0.00	4.29	6748.80	0.24
											4448.56			**Total Solids Lost:**		**5.76**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.07	in/hr	avg														
20-Jun-12		2-1	3.00	208.32	152.81	150.08	149.79	290.00	58.24	0.06	4979.40	3.00	469.39	0.40	4979.40	0.02
		2-2	6.00	341.67	155.32	151.80	150.98	820.00	189.87	0.19	4318.74	6.00	378.54	0.45	4318.74	0.02
		2-3	9.00	329.80	158.22	149.62	149.23	390.00	180.18	0.18	2164.50	9.00	317.97	0.50	2164.50	0.01
		2-4	12.00	381.00	168.59	151.28	150.68	600.00	229.72	0.23	2611.88	12.00	166.56	0.65	2611.88	0.01
		2-5	15.00	319.74	158.37	150.28	149.75	530.00	169.46	0.17	3127.58	15.00	90.85	1.50	3127.58	0.04
		2-6	18.00	359.21	157.96	150.00	149.47	530.00	209.21	0.21	2533.34	18.00	75.71	2.31	2533.34	0.05
		2-7	21.00	275.54	154.69	149.14	148.70	440.00	126.40	0.13	3481.01	21.00	196.84	2.81	3481.01	0.08
										AVG =	**3316.64**	22.00	0.00	0.66	3481.01	0.02
4.00	in/hr	avg									3316.64			**Total Solids Lost:**		**0.24**
20-Jun-12		4-1	3.00	303.62	156.82	151.41	150.60	810.00	152.21	0.15	5321.60	3.00	23.00	4.15	5321.60	0.02
		4-2	6.00	318.82	155.93	150.57	149.99	580.00	168.25	0.17	3447.25	6.00	17.00	10.06	3447.25	0.29
		4-3	9.00	337.02	159.81	151.44	150.87	570.00	185.58	0.19	3071.45	9.00	15.00	11.28	3071.45	0.29
		4-4	12.00	336.60	156.42	147.63	146.65	980.00	188.97	0.19	5186.01	12.00	14.00	12.42	5186.01	0.54
		4-5	15.00	323.45	159.13	150.56	149.78	780.00	172.89	0.17	4511.54	15.00	13.00	13.34	4511.54	0.50
		4-6	18.00	350.21	160.83	152.91	151.93	980.00	197.30	0.20	4967.06	18.00	12.00	14.41	4967.06	0.60
		4-7	21.00	341.82	153.35	149.12	147.95	1170.00	192.70	0.19	6071.61	21.00	22.00	13.53	6071.61	0.69
										AVG =	**4653.79**	24.00	0.00	2.50	6071.61	0.13
5.98	in/hr	avg									4653.79			**Total Solids Lost:**		**3.05**
20-Jun-12		6-1	3.00	347.27	160.31	152.05	150.97	1080.00	195.22	0.20	5532.22	3.00	9.00	14.44	5532.22	0.67
		6-2	6.00	343.02	158.34	151.06	150.23	830.00	191.96	0.19	4323.82	6.00	9.00	20.00	4323.82	0.72
		6-3	9.00	354.43	158.18	151.23	150.24	990.00	203.20	0.20	4872.05	9.00	8.00	20.39	4872.05	0.83
		6-4	12.00	359.27	154.64	149.04	148.06	980.00	210.23	0.21	4661.56	12.00	8.00	22.50	4661.56	0.87
		6-5	15.00	358.67	208.86	152.30	151.30	1000.00	206.37	0.21	4845.67	15.00	8.00	23.50	4845.67	0.95
		6-6	18.00	335.16	172.49	150.65	149.91	740.00	184.51	0.18	4010.62	18.00	7.00	25.14	4010.62	0.84
		6-7	21.00	324.32	162.32	151.39	150.56	830.00	172.93	0.17	4799.63	21.00	19.00	21.76	4799.63	0.87
										AVG =	**4720.79**	30.00	0.00	4.29	4799.63	0.17
											4720.79			**Total Solids Lost:**		**5.93**

18-Jun-12

Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.05 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	681	0.18	0.18	0.18	
2-2	2.00	681	0.09	0.09	0.26	
2-3	3.00	560	0.10	0.10	0.36	
2-4	4.00	560	0.11	0.11	0.47	
2-5	5.00	424	0.12	0.12	0.59	
2-6	6.00	424	0.14	0.14	0.73	
2-7	7.00	303	0.17	0.17	0.90	
2-8	8.00	303	0.20	0.20	1.09	
2-9	9.00	303	0.20	0.20	1.29	
2-10	10.00	303	0.20	0.20	1.49	
2-11	11.00	273	0.21	0.21	1.70	
2-12	12.00	273	0.22	0.22	1.92	
2-13	13.00	257	0.23	0.23	2.15	
2-14	14.00	257	0.23	0.23	2.38	
2-15	15.00	242	0.24	0.24	2.62	
2-16	16.00	121	0.33	0.33	2.95	
2-17	17.00	91	0.57	0.57	3.52	
2-18	18.00	76	0.72	0.72	4.24	
2-19	19.00	61	0.88	0.88	5.12	
2-20	20.00	45	1.13	1.13	6.25	
2-21	21.00	212	0.47	0.47	6.71	
2-end	22.00	0	0.66	0.66	7.38	
					7.38	**Total Collected Runoff (approx)**
4.02 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	43	2.79	2.79	2.79	
4-2	2	35	1.54	1.54	4.33	
4-3	3	29	1.87	1.87	6.20	
4-4	4	27	2.14	2.14	8.35	
4-5	5	26	2.26	2.26	10.61	
4-6	6	22	2.50	2.50	13.11	
4-7	7	18	3.00	3.00	16.11	
4-8	8	16	3.53	3.53	19.64	
4-9	9	16	3.75	3.75	23.39	
4-10	10	15	3.87	3.87	27.26	
4-11	11	15	4.00	4.00	31.26	
4-12	12	14	4.14	4.14	35.40	
4-13	13	13	4.44	4.44	39.84	
4-14	14	13	4.61	4.61	44.45	
4-15	15	13	4.61	4.61	49.07	
4-16	16	13	4.61	4.61	53.68	
4-17	17	12	4.80	4.80	58.48	
4-18	18	12	5.00	5.00	63.48	
4-19	19	12	5.00	5.00	68.48	
4-20	20	12	5.00	5.00	73.48	
4-21	21	18	4.00	4.00	77.48	
4-end	23.00	0	2.50	2.50	79.98	
					79.98	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	50	2.40	2.40	2.40	
6-2	2	21	1.69	1.69	4.09	
6-3	3	9	4.00	4.00	8.09	
6-4	4	9	6.67	6.67	14.76	
6-5	5	9	6.67	6.67	21.42	
6-6	6	9	6.67	6.67	28.09	
6-7	7	9	6.67	6.67	34.75	
6-8	8	8	7.06	7.06	41.81	
6-9	9	8	7.50	7.50	49.31	
6-10	10	8	7.50	7.50	56.81	
6-11	11	8	7.50	7.50	64.31	
6-12	12	8	7.50	7.50	71.81	
6-13	13	8	7.50	7.50	79.31	
6-14	14	8	7.50	7.50	86.81	
6-15	15	7	8.00	8.00	94.81	
6-16	16	7	8.57	8.57	103.38	
6-17	17	7	8.57	8.57	111.95	
6-18	18	7	8.57	8.57	120.52	
6-19	19	6	9.23	9.23	129.75	
6-20	20	6	10.00	10.00	139.75	
6-21	21	13	6.32	6.32	146.06	
6-end	30.00	0	5.00	5.00	151.06	
					151.06	**Total Collected Runoff (approx)**

18-Jun-12

Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.09 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	454	0.26	0.26	0.26	
2-2	2.00	424	0.14	0.14	0.40	
2-3	3.00	394	0.15	0.15	0.55	
2-4	4.00	379	0.16	0.16	0.70	
2-5	5.00	257	0.19	0.19	0.89	
2-6	6.00	182	0.27	0.27	1.16	
2-7	7.00	136	0.38	0.38	1.54	
2-8	8.00	121	0.47	0.47	2.01	
2-9	9.00	121	0.50	0.50	2.50	
2-10	10.00	121	0.50	0.50	3.00	
2-11	11.00	121	0.50	0.50	3.49	
2-12	12.00	106	0.53	0.53	4.02	
2-13	13.00	106	0.57	0.57	4.59	
2-14	14.00	91	0.61	0.61	5.20	
2-15	15.00	76	0.72	0.72	5.92	
2-16	16.00	76	0.79	0.79	6.71	
2-17	17.00	76	0.79	0.79	7.50	
2-18	18.00	76	0.79	0.79	8.30	
2-19	19.00	76	0.79	0.79	9.09	
2-20	20.00	76	0.79	0.79	9.88	
2-21	21.00	227	0.40	0.40	10.28	
2-end	22.00	0	0.40	0.40	10.67	
					10.67	**Total Collected Runoff (approx)**
3.96 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	136	0.88	0.88	0.88	
4-2	2	34	0.70	0.70	1.59	
4-3	3	27	1.97	1.97	3.55	
4-4	4	22	2.45	2.45	6.00	
4-5	5	17	3.08	3.08	9.08	
4-6	6	17	3.53	3.53	12.61	
4-7	7	16	3.64	3.64	16.24	
4-8	8	16	3.75	3.75	19.99	
4-9	9	16	3.75	3.75	23.74	
4-10	10	16	3.75	3.75	27.49	
4-11	11	15	3.87	3.87	31.36	
4-12	12	15	4.00	4.00	35.36	
4-13	13	15	4.00	4.00	39.36	
4-14	14	15	4.00	4.00	43.36	
4-15	15	14	4.14	4.14	47.50	
4-16	16	14	4.29	4.29	51.78	
4-17	17	14	4.29	4.29	56.07	
4-18	18	14	4.29	4.29	60.35	
4-19	19	13	4.44	4.44	64.80	
4-20	20	13	4.61	4.61	69.41	
4-21	21	22	3.43	3.43	72.84	
4-end	23	0	2.31	2.31	75.15	
					75.15	**Total Collected Runoff (approx)**
6.04 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	28	4.29	4.29	4.29	
6-2	2	12	3.00	3.00	7.28	
6-3	3	11	5.22	5.22	12.50	
6-4	4	9	6.00	6.00	18.50	
6-5	5	9	6.67	6.67	25.17	
6-6	6	9	6.67	6.67	31.83	
6-7	7	9	6.67	6.67	38.50	
6-8	8	9	6.67	6.67	45.16	
6-9	9	9	6.67	6.67	51.83	
6-10	10	9	6.67	6.67	58.50	
6-11	11	8	7.06	7.06	65.55	
6-12	12	8	7.50	7.50	73.05	
6-13	13	8	7.50	7.50	80.55	
6-14	14	8	7.50	7.50	88.05	
6-15	15	8	7.50	7.50	95.55	
6-16	16	7	8.00	8.00	103.55	
6-17	17	7	8.57	8.57	112.12	
6-18	18	7	8.57	8.57	120.69	
6-19	19	7	8.57	8.57	129.26	
6-20	20	7	8.57	8.57	137.83	
6-21	21	15	5.45	5.45	143.29	
6-end	30	0	4.29	4.29	147.57	
					147.57	**Total Collected Runoff (approx)**

20-Jun-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.07 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	651	0.18	0.18	0.18	
2-2	2.00	560	0.10	0.10	0.28	
2-3	3.00	469	0.12	0.12	0.40	
2-4	4.00	409	0.14	0.14	0.54	
2-5	5.00	379	0.15	0.15	0.69	
2-6	6.00	379	0.16	0.16	0.85	
2-7	7.00	379	0.16	0.16	1.01	
2-8	8.00	363	0.16	0.16	1.17	
2-9	9.00	318	0.18	0.18	1.34	
2-10	10.00	318	0.19	0.19	1.53	
2-11	11.00	288	0.20	0.20	1.73	
2-12	12.00	167	0.26	0.26	1.99	
2-13	13.00	136	0.40	0.40	2.39	
2-14	14.00	106	0.50	0.50	2.89	
2-15	15.00	91	0.61	0.61	3.50	
2-16	16.00	76	0.72	0.72	4.22	
2-17	17.00	76	0.79	0.79	5.01	
2-18	18.00	76	0.79	0.79	5.80	
2-19	19.00	45	0.99	0.99	6.79	
2-20	20.00	45	1.32	1.32	8.11	
2-21	21.00	197	0.50	0.50	8.61	
2-end	22.00	0	0.66	0.66	9.27	
					9.27	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	121	0.99	0.99	0.99	
4-2	2	28	0.80	0.80	1.80	
4-3	3	23	2.35	2.35	4.15	
4-4	4	17	3.00	3.00	7.15	
4-5	5	17	3.53	3.53	10.68	
4-6	6	17	3.53	3.53	14.21	
4-7	7	17	3.53	3.53	17.73	
4-8	8	15	3.75	3.75	21.48	
4-9	9	15	4.00	4.00	25.48	
4-10	10	15	4.00	4.00	29.48	
4-11	11	14	4.14	4.14	33.62	
4-12	12	14	4.29	4.29	37.91	
4-13	13	14	4.29	4.29	42.19	
4-14	14	13	4.44	4.44	46.64	
4-15	15	13	4.61	4.61	51.25	
4-16	16	13	4.61	4.61	55.87	
4-17	17	12	4.80	4.80	60.66	
4-18	18	12	5.00	5.00	65.66	
4-19	19	12	5.00	5.00	70.66	
4-20	20	12	5.00	5.00	75.66	
4-21	21	22	3.53	3.53	79.19	
4-end	24	0	2.50	2.50	81.69	
					81.69	**Total Collected Runoff (approx)**
5.98 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	27	4.44	4.44	4.44	
6-2	2	9	3.33	3.33	7.78	
6-3	3	9	6.67	6.67	14.44	
6-4	4	9	6.67	6.67	21.11	
6-5	5	9	6.67	6.67	27.77	
6-6	6	9	6.67	6.67	34.44	
6-7	7	9	6.67	6.67	41.11	
6-8	8	9	6.67	6.67	47.77	
6-9	9	8	7.06	7.06	54.83	
6-10	10	8	7.50	7.50	62.33	
6-11	11	8	7.50	7.50	69.83	
6-12	12	8	7.50	7.50	77.33	
6-13	13	8	7.50	7.50	84.83	
6-14	14	7	8.00	8.00	92.83	
6-15	15	8	8.00	8.00	100.83	
6-16	16	7	8.00	8.00	108.82	
6-17	17	7	8.57	8.57	117.40	
6-18	18	7	8.57	8.57	125.97	
6-19	19	7	8.57	8.57	134.54	
6-20	20	7	8.57	8.57	143.11	
6-21	21	19	4.61	4.61	147.72	
6-end	30	0	4.29	4.29	152.01	
					152.01	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	18-Jun-12	18-Jun-12	20-Jun-12
Avg Moisture Content:	**23.26%**	**23.10%**	**22.10%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	261.24	261.82	255.29
Wt. Of cup + dry soil, g	252.79	253.21	248.66
Wt. Of cup, g	217.07	216.59	217.07
Wt. Of dry soil, g	35.72	36.62	31.59
Wt. Of water, g	8.45	8.61	6.63
Water Content, w%	23.7%	23.5%	21.0%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	266.75	258.13	255.86
Wt. Of cup + dry soil, g	257.28	250.55	248.73
Wt. Of cup, g	216.97	216.54	216.97
Wt. Of dry soil, g	40.31	34.01	31.76
Wt. Of water, g	9.47	7.58	7.13
Water Content, w%	23.5%	22.3%	22.4%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	249.39	265.24	257.97
Wt. Of cup + dry soil, g	243.43	255.98	250.36
Wt. Of cup, g	217.08	216.59	217.08
Wt. Of dry soil, g	26.35	39.39	33.28
Wt. Of water, g	5.96	9.26	7.61
Water Content, w%	22.6%	23.5%	22.9%

Soil Loss Data

Slope No.	1	2	3
Test Date:	18-Jun-12	18-Jun-12	20-Jun-12
Total Soil Loss	**7.66**	**8.48**	**8.92**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		9.1	81.7	122.6
Sub-Sample	Wt. Of cup + wet soil, g	9.1	81.7	122.6
	Wt. Of cup + dry soil, g	9.1	81.7	122.6
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	9.1	81.7	122.6
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.020	0.180	0.270

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		1107.8	1316.6	1289.4
Sub-Sample	Wt. Of cup + wet soil, g	1107.8	1316.6	1289.4
	Wt. Of cup + dry soil, g	1107.8	1316.6	1289.4
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	1107.8	1316.6	1289.4
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		2.440	2.900	2.840

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		2360.8	2451.6	2637.7
Sub-Sample	Wt. Of cup + wet soil, g	2360.8	2451.6	2637.7
	Wt. Of cup + dry soil, g	2360.8	2451.6	2637.7
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	2360.8	2451.6	2637.7
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		5.200	5.400	5.810

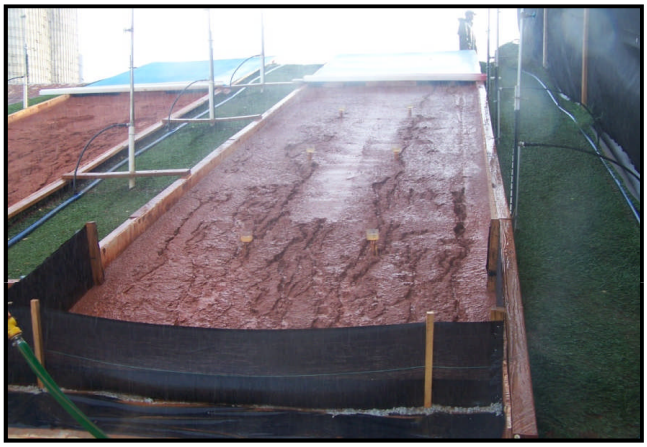
TYPICAL TESTING PICTURES



Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 25-Jul-12 | Start Rain: 7:15 AM | End Rain: 7:35 AM

Sampling interval: 0:03 | End Runoff: 7:37 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: GFG-B | Descr:. GeoFabrics Type B Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

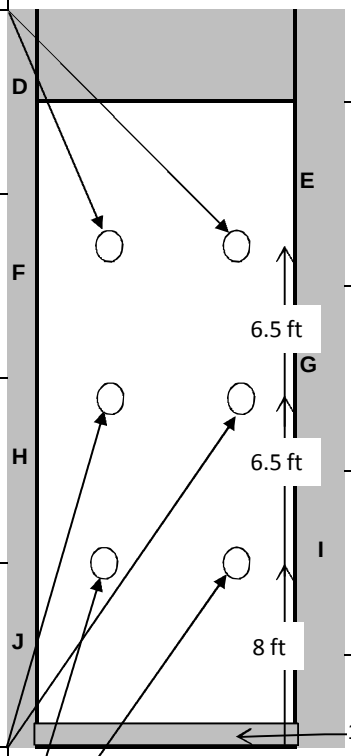
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.2%

d = 17 17 mm

i = 2.01 2.01 in/hr



x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
x						X
x	P = 9 psi	J				x
X						
x						

d = 18 19 mm

i = 2.13 2.24 in/hr

w_{c2} = 22.5%

d = 19 20 mm

i = 2.24 2.36 in/hr

w_{c3} = 21.7%

x x **X** x

P = 9 psi

Temp. 74 deg

Hum. 93 %

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.17** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:18	X	X
7:21	X	X
7:24	X	X
7:27	X	X
7:30	X	X
7:33	X	X
7:36	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	25	60
2	250	35
3	250	35
4	250	35
5	250	31
6	250	32
7	250	30
8	250	22
9	250	25
10	250	23
11	250	14
12	250	15
13	250	9
14	250	8
15	250	8
16	250	8
17	250	8
18	250	8
19	250	8
20	250	8
21	250	22
22	250	0

NOTES:
Wind: 0 mph. Direction: E
Approx 5 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 25-Jul-12 | Start Rain: 7:44 AM | End Rain: 8:04 AM

Sampling interval: 0:03 | End Runoff: 8:07 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: GFG-B | Descr:. GeoFabrics Type B Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

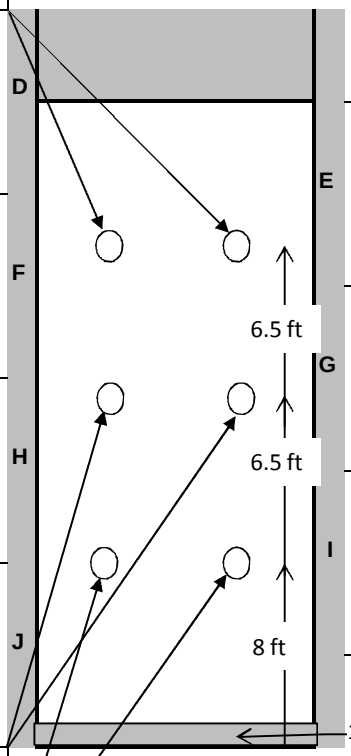
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.2%

d = 34 34 mm

i = 4.02 4.02 in/hr



x						x	
X	P =	9	psi	D		x	
x						x	
x					E	P = 9 psi	X
x						x	
X	P =	9	psi	F		x	
x						x	
x					G	P = 9 psi	x
x							X
x	P =	9	psi	H		x	
X						x	
x					I	P = 9 psi	x
x							X
x	P =	9	psi	J		x	
X							
x							

d = 36 33 mm

i = 4.25 3.90 in/hr

x x **X** x

P = 9 psi

Temp. 74 deg

Hum. 93 %

w_{c2} = 22.5%

d = 34 36 mm

i = 4.02 4.25 in/hr

w_{c3} = 21.7%

Average Depth: 35 mm

Avg Rainfall Intensity: 4.07 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:47	X	X
7:50	X	X
7:53	X	X
7:56	X	X
7:59	X	X
8:02	X	X
8:05	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	45
2	3785	29
3	3785	27
4	3785	24
5	3785	23
6	3785	23
7	3785	23
8	3785	23
9	3785	23
10	3785	23
11	3785	23
12	3785	23
13	3785	22
14	3785	22
15	3785	22
16	3785	22
17	3785	22
18	3785	21
19	3785	21
20	3785	21
21	3785	53
23	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 50 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date:	25-Jul-12	Start Rain:	8:12 AM	End Rain:	8:32 AM
		Sampling interval:	0:03	End Runoff:	8:42 AM
		Rain Time (min):	20.00	Test Time (min):	30.00
Product:	GFG-B	Descr:.	GeoFabrics Type B Silt Fence		
Lot #:		Posts:	Wood	Spacing:	6-ft

TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.2%

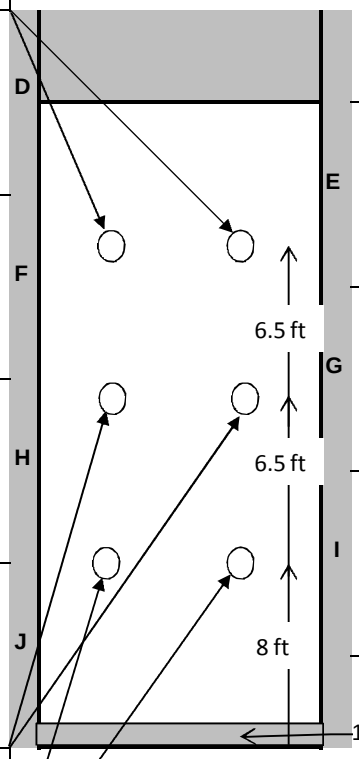
d =	52	53	mm
i =	6.14	6.26	in/hr

x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
x P = 9 psi **J**
X
x



x
x
x
E P = 9 psi **X**
x
x
x
G P = 9 psi x
X
x
x
I P = 9 psi x
X
x

x x **X** x

P = 9 psi

Temp. 76 deg

Hum. 90 %

d =	52	53	mm
i =	6.14	6.26	in/hr

w_{c2} = 22.5%

d =	54	51	51
i =	6.38	6.02	in/hr

w_{c3} = 21.7%

Average Depth: **53** **mm**

Avg Rainfall Intensity: **6.20** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:15	X	X
8:18	X	X
8:21	X	X
8:24	X	X
8:27	X	X
8:30	X	X
8:33	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	20
2	3785	11
3	3785	9
4	3785	9
5	3785	9
6	3785	8
7	3785	8
8	3785	8
9	3785	8
10	3785	8
11	3785	8
12	3785	8
13	3785	8
14	3785	8
15	3785	8
16	3785	8
17	3785	7
18	3785	7
19	3785	7
20	3785	7
21	3785	26
30	3785	0

NOTES:
Wind: 0-1 mph. Direction: N
Approx 150 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date:	24-Jul-12	Start Rain:	7:15 AM	End Rain:	7:35 AM
		Sampling interval:	0:03	End Runoff:	7:37 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	GFG-B	Descr:.	GeoFabrics Type B Silt Fence		
Lot #:		Posts:	Wood	Spacing:	6-ft

TOP OF SLOPE

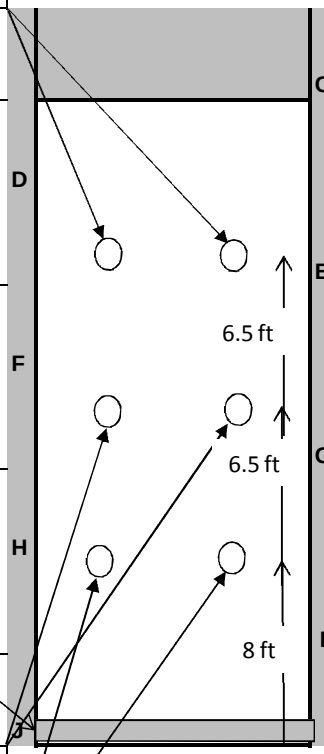
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.2%

d = 20 20 mm

i = 2.36 2.36 in/hr



x								x
				C	P =	9	psi	X
x								x
X	P =	9	psi	D				x
x								x
x				E	P =	9	psi	X
x								x
X	P =	9	psi	F				x
x								x
x				G	P =	9	psi	x
x								X
x	P =	9	psi	H				x
X								x
x				I	P =	9	psi	x
								X
				J				x

d = 17 18 mm

i = 2.01 2.13 in/hr

x x **X** x

P = 9 psi

Temp. 76 deg

Hum. 89 %

w_{c2} = 22.5%

d = 16 17 mm

i = 1.89 2.01 in/hr

w_{c3} = 21.7%

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.13** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:18	X	X
7:21	X	X
7:24	X	X
7:27	X	X
7:30	X	X
7:33	X	X
7:36	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	43
2	250	41
3	250	40
4	250	37
5	250	30
6	250	30
7	250	28
8	250	25
9	250	25
10	250	23
11	250	22
12	250	20
13	250	18
14	250	15
15	250	14
16	250	13
17	250	13
18	250	12
19	250	10
20	250	10
21	250	19
22	250	0

NOTES:

Wind: 0 mph. Direction: W

Approx 5 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 24-Jul-12 | Start Rain: 7:40 AM | End Rain: 8:00 AM

Sampling interval: 0:03 | End Runoff: 8:03 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: GFG-B | Descr:. GeoFabrics Type B Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

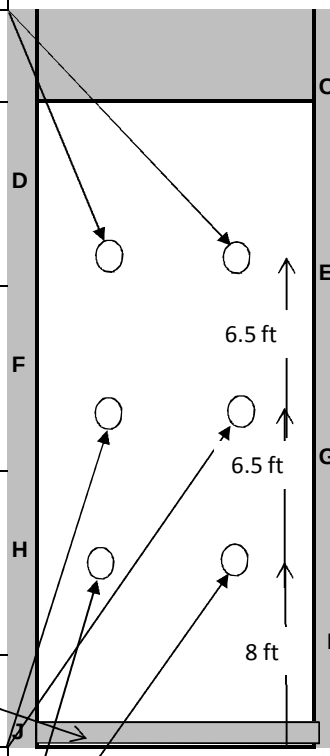
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.2%

d = 35 34 mm

i = 4.13 4.02 in/hr



					C P = 9 psi	X
x						x
X	P = 9 psi	D				x
x						x
x					E P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x					G P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x					I P = 9 psi	x
						X
		J				x

d = 32 36 mm

i = 3.78 4.25 in/hr

x x **X** x

P = 9 psi

Temp. 76 deg

Hum. 87 %

w_{c2} = 22.5%

d = 35 32 mm

i = 4.13 3.78 in/hr

w_{c3} = 21.7%

Average Depth: 34 mm

Avg Rainfall Intensity: 4.02 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:43	X	X
7:46	X	X
7:49	X	X
7:52	X	X
7:55	X	X
7:58	X	X
8:01	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	23
2	250	12
3	3785	35
4	3785	24
5	3785	24
6	3785	23
7	3785	22
8	3785	21
9	3785	21
10	3785	17
11	3785	17
12	3785	17
13	3785	21
14	3785	18
15	3785	17
16	3785	15
17	3785	15
18	3785	15
19	3785	15
20	3785	15
21	3785	35
23	3785	0

NOTES:
Wind: 0 mph. Direction: W
Approx 60 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date:	24-Jul-12	Start Rain:	8:10 AM	End Rain:	8:30 AM
		Sampling interval:	0:03	End Runoff:	8:40 AM
		Rain Time (min):	20.00	Test Time (min):	30.00
Product:	GFG-B	Descr:.	GeoFabrics Type B Silt Fence		
Lot #:		Posts:	Wood	Spacing:	6-ft

TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.2%

d = 52 51 mm

i = 6.14 6.02 in/hr

x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

1 ft Install Zone

d = 49 50 mm

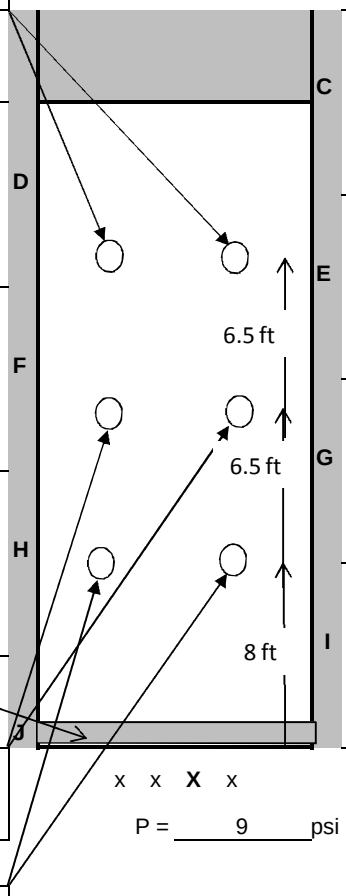
i = 5.79 5.91 in/hr

w_{c2} = 22.5%

d = 50 49 mm

i = 5.91 5.79 in/hr

w_{c3} = 21.7%



C P = 9 psi **X**
x
x
x

E P = 9 psi **X**
x
x

G P = 9 psi x
x
X
x

I P = 9 psi x
x
X
x

x x **X** x

P = 9 psi

Temp. 77 deg

Hum. 86 %

Average Depth: **50** **mm**

Avg Rainfall Intensity: **5.93** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:13	X	X
8:16	X	X
8:19	X	X
8:22	X	X
8:25	X	X
8:28	X	X
8:31	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	21
2	3785	12
3	3785	8
4	3785	9
5	3785	7
6	3785	9
7	3785	7
8	3785	8
9	3785	8
10	3785	8
11	3785	7
12	3785	7
13	3785	8
14	3785	8
15	3785	9
16	3785	7
17	3785	7
18	3785	9
19	3785	9
20	3785	11
21	3785	33
30	3785	0

NOTES:
Wind: 0 mph. Direction: W
Approx 150 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date:	27-Jul-12	Start Rain:	8:39 AM	End Rain:	8:59 AM
		Sampling interval:	0:03	End Runoff:	9:01 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	GFG-B	Descr:.	GeoFabrics Type B Silt Fence		
Lot #:		Posts:	Wood	Spacing:	6-ft

TOP OF SLOPE

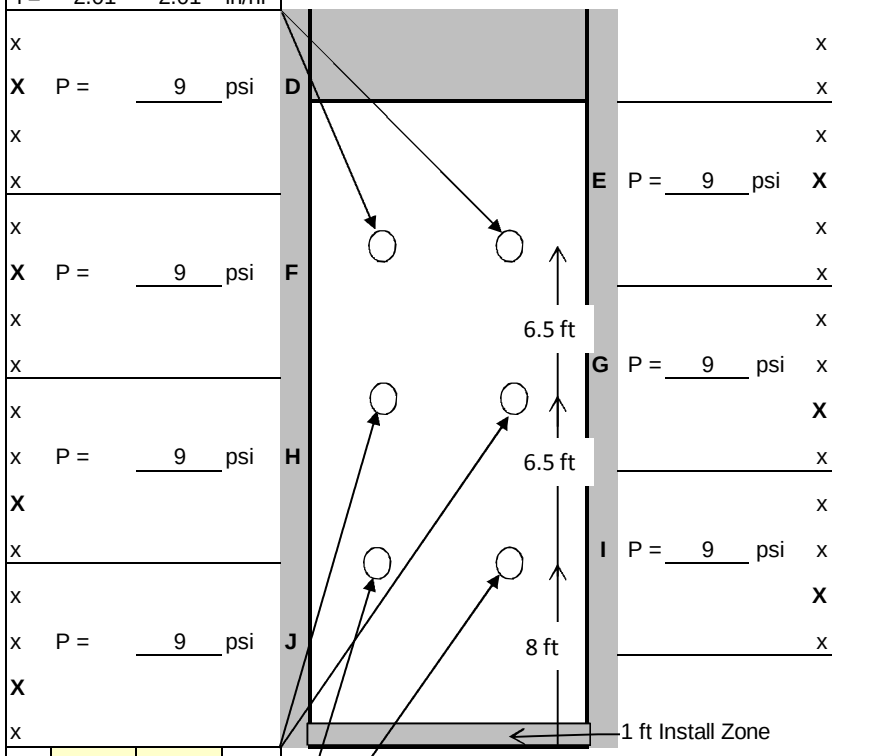
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.2%

d = 17 17 mm

i = 2.01 2.01 in/hr



d = 18 17 mm

i = 2.13 2.01 in/hr

w_{c2} = 19.1%

d = 16 17 mm

i = 1.89 2.01 in/hr

w_{c3} = 21.7%

x x **X** x

P = 9 psi

Temp. 81 deg

Hum. 78 %

Average Depth: **17** **mm**

Avg Rainfall Intensity: **2.01** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:42	X	X
8:45	X	X
8:48	X	X
8:51	X	X
8:54	X	X
8:57	X	X
9:00	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	60
2	250	60
3	250	42
4	250	40
5	250	34
6	250	32
7	250	30
8	250	26
9	250	24
10	250	20
11	250	13
12	250	10
13	250	9
14	250	9
15	250	10
16	250	12
17	250	9
18	250	10
19	250	8
20	250	8
21	250	22
22	250	0

NOTES: Test on Slope G2
Wind: 0-3 mph. Direction: W
Approx 5 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date: 27-Jul-12 | Start Rain: 9:06 AM | End Rain: 9:26 AM

Sampling interval: 0:03 | End Runoff: 9:29 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: GFG-B | Descr:. GeoFabrics Type B Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

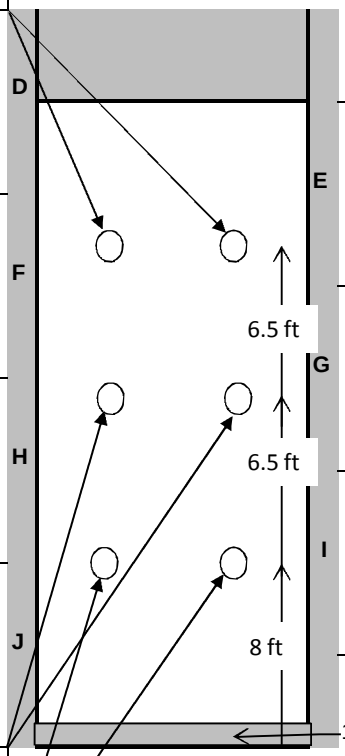
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.2%

d = 34 32 mm

i = 4.02 3.78 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 34 32 mm

i = 4.02 3.78 in/hr

w_{c2} = 19.1%

d = 33 34 mm

i = 3.90 4.02 in/hr

w_{c3} = 21.7%

x x **X** x

P = 9 psi Temp. 81 deg

Hum. 78 %

Average Depth: **33** **mm**

Avg Rainfall Intensity: **3.92** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:09	X	X
9:12	X	X
9:15	X	X
9:18	X	X
9:21	X	X
9:24	X	X
9:27	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	26
2	250	20
3	250	16
4	3785	36
5	3785	30
6	3785	30
7	3785	26
8	3785	22
9	3785	18
10	3785	16
11	3785	15
12	3785	16
13	3785	16
14	3785	15
15	3785	15
16	3785	15
17	3785	14
18	3785	14
19	3785	14
20	3785	14
21	3785	22
23	3785	0

NOTES:
Wind: 0-3 mph. Direction: W
Approx 60 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 27-Jul-12 | Start Rain: 9:30 AM | End Rain: 9:50 AM

Sampling interval: 0:03 | End Runoff: 10:00 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: GFG-B | Descr:. GeoFabrics Type B Silt Fence

Lot #: | Posts: Wood | Spacing: 6-ft

TOP OF SLOPE

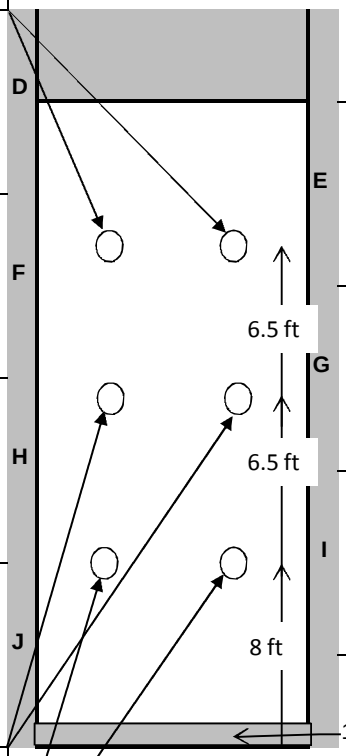
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.2%

d = 52 48 mm

i = 6.14 5.67 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 52 50 mm

i = 6.14 5.91 in/hr

w_{c2} = 19.1%

d = 52 50 mm

i = 6.14 5.91 in/hr

w_{c3} = 21.7%

x x **X** x

P = 9 psi

Temp. 83 deg

Hum. 76 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **5.98** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:33	X	X
9:36	X	X
9:39	X	X
9:42	X	X
9:45	X	X
9:48	X	X
9:51	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	31
2	3785	26
3	3785	26
4	3785	10
5	3785	9
6	3785	10
7	3785	9
8	3785	10
9	3785	8
10	3785	8
11	3785	8
12	3785	9
13	3785	8
14	3785	8
15	3785	7
16	3785	7
17	3785	6
18	3785	6
19	3785	6
20	3785	7
21	3785	22
30	3785	0

NOTES:
Wind: 0-3 mph. Direction: W
Approx 145 gallons collected.

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	73.9
2	20	51
3	20	75.9

GFG-B GeoFabrics Type B Silt Fence

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	3077	2-1	3.00	500	2-1	3.00	590
2-2	6.00	2589	2-2	6.00	267	2-2	6.00	494
2-3	9.00	1897	2-3	9.00	275	2-3	9.00	655
2-4	12.00	3043	2-4	12.00	238	2-4	12.00	985
2-5	15.00	3066	2-5	15.00	214	2-5	15.00	1879
2-6	18.00	1453	2-6	18.00	690	2-6	18.00	1435
2-7	21.00	985	2-7	21.00	1506	2-7	21.00	1572
avg		**2301**	avg		**527**	avg		**1087**
4-1	3.00	3734	4-1	2.00	2744	4-1	2.00	1326
4-2	6.00	3202	4-2	4.00	3417	4-2	4.00	1693
4-3	9.00	2485	4-3	6.00	2640	4-3	6.00	2071
4-4	12.00	2304	4-4	8.00	2353	4-4	8.00	2403
4-5	15.00	2017	4-5	10.00	2868	4-5	10.00	2458
4-6	18.00	1693	4-6	12.00	2736	4-6	12.00	3220
4-7	21.00	1326	4-7	21.00	1942	4-7	21.00	3079
avg		**2394**	avg		**2671**	avg		**2321**
6-1	3.00	3167	6-1	3.00	3456	6-1	3.00	1353
6-2	6.00	3339	6-2	6.00	2356	6-2	6.00	1503
6-3	9.00	2982	6-3	9.00	2344	6-3	9.00	2151
6-4	12.00	2727	6-4	12.00	2596	6-4	12.00	2272
6-5	15.00	2150	6-5	15.00	2278	6-5	15.00	2928
6-6	18.00	1530	6-6	18.00	2304	6-6	18.00	1857
6-7	21.00	1354	6-7	21.00	1870	6-7	21.00	3176
avg		**2464**	avg		**2458**	avg		**2177**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.17	in/hr	avg														
25-Jul-12		2-1	3.00	316.19	166.05	151.84	151.51	330.00	164.35	0.16	2007.91	3.00	529.96	0.14	2007.91	0.00
		2-2	6.00	320.71	165.08	151.06	150.82	240.00	169.65	0.17	1414.68	6.00	484.53	0.36	1414.68	0.00
		2-3	9.00	316.00	170.10	151.03	150.98	50.00	164.97	0.16	303.09	9.00	378.54	0.45	303.09	0.00
		2-4	12.00	319.90	162.71	149.48	147.28	2200.00	170.42	0.17	12909.28	12.00	227.12	0.65	12909.28	0.07
		2-5	15.00	349.27	185.72	151.16	150.73	430.00	198.11	0.20	2170.51	15.00	121.13	1.29	2170.51	0.02
		2-6	18.00	347.56	165.29	150.38	150.12	260.00	197.18	0.20	1318.59	18.00	121.13	1.49	1318.59	0.02
		2-7	21.00	251.80	162.22	150.74	150.21	530.00	101.06	0.10	5244.41	21.00	333.12	1.25	5244.41	0.05
										AVG =	**3624.07**	22.00	0	0.25	5244.41	0.01
4.07	in/hr	avg									3624.07			**Total Solids Lost:**		**0.18**
25-Jul-12		4-1	3.00	337.07	174.06	150.24	149.32	920.00	186.83	0.19	4924.26	3.00	27.00	6.43	4924.26	0.26
		4-2	6.00	342.02	168.05	152.73	151.34	1390.00	189.29	0.19	7343.23	6.00	23.00	7.51	7343.23	0.46
		4-3	9.00	349.47	165.61	151.55	150.15	1400.00	197.92	0.20	7073.57	9.00	23.00	7.83	7073.57	0.46
		4-4	12.00	298.81	171.41	150.85	150.75	100.00	147.96	0.15	675.86	12.00	23.00	7.83	675.86	0.04
		4-5	15.00	332.42	163.58	149.60	149.48	120.00	182.82	0.18	656.38	15.00	22.00	8.12	656.38	0.04
		4-6	18.00	324.99	170.57	150.27	147.98	2290.00	174.72	0.17	13106.68	18.00	21.00	8.24	13106.68	0.90
		4-7	21.00	321.74	179.70	148.96	148.08	880.00	172.78	0.17	5093.18	21.00	53.01	7.34	5093.18	0.31
										AVG =	**5553.31**	23.00	0.00	1.43	5093.18	0.06
6.20	in/hr	avg									5553.31			**Total Solids Lost:**		**2.55**
25-Jul-12		6-1	3.00	292.45	171.18	151.68	151.38	300.00	140.77	0.14	2131.14	3.00	9.00	15.87	2131.14	0.28
		6-2	6.00	374.15	187.71	148.47	147.68	790.00	225.68	0.23	3500.53	6.00	8.00	20.39	3500.53	0.60
		6-3	9.00	313.32	179.95	149.28	148.93	350.00	164.04	0.16	2133.63	9.00	8.00	22.50	2133.63	0.40
		6-4	12.00	305.19	160.94	151.15	150.54	610.00	154.04	0.15	3960.01	12.00	8.00	22.50	3960.01	0.74
		6-5	15.00	299.33	165.12	150.69	150.20	490.00	148.64	0.15	3296.56	15.00	8.00	22.50	3296.56	0.62
		6-6	18.00	354.49	177.88	149.90	149.44	460.00	204.59	0.20	2248.40	18.00	7.00	24.07	2248.40	0.45
		6-7	21.00	334.13	170.66	150.18	149.68	500.00	183.95	0.18	2718.13	21.00	26.00	20.78	2718.13	0.47
										AVG =	**2855.48**	30.00	0.00	4.29	2718.13	0.10
											2855.48			**Total Solids Lost:**		**3.66**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.13	in/hr	avg														
24-Jul-12		2-1	3.00	307.91	157.47	151.53	151.03	500.00	156.38	0.16	3197.34	3.00	605.67	0.38	3197.34	0.01
		2-2	6.00	298.32	150.38	148.76	147.98	780.00	149.56	0.15	5215.30	6.00	454.25	0.35	5215.30	0.02
		2-3	9.00	296.08	153.21	149.80	149.76	40.00	146.28	0.15	273.45	9.00	378.54	0.44	273.45	0.00
		2-4	12.00	275.65	150.63	147.78	147.71	70.00	127.87	0.13	547.43	12.00	302.83	0.53	547.43	0.00
		2-5	15.00	337.91	159.43	149.91	149.03	880.00	188.00	0.19	4680.85	15.00	211.98	0.72	4680.85	0.03
		2-6	18.00	299.51	155.05	150.01	149.66	350.00	149.50	0.15	2341.14	18.00	181.70	0.92	2341.14	0.02
		2-7	21.00	350.30	171.61	151.36	150.66	700.00	198.94	0.20	3518.65	21.00	287.69	1.03	3518.65	0.03
										AVG =	**2824.88**	22.00	0.00	0.20	3518.65	0.01
4.02	in/hr	avg									2824.88			**Total Solids Lost:**		**0.11**
24-Jul-12		4-1	3.00	281.09	171.79	149.20	148.81	390.00	131.89	0.13	2957.01	3.00	35.00	1.12	2957.01	0.03
		4-2	6.00	287.01	159.41	150.13	149.76	370.00	136.88	0.14	2703.10	6.00	23.00	7.09	2703.10	0.16
		4-3	9.00	343.16	160.84	150.12	149.47	650.00	193.04	0.19	3367.18	9.00	21.00	8.31	3367.18	0.23
		4-4	12.00	344.70	187.83	149.88	149.44	440.00	194.82	0.19	2258.50	12.00	17.00	10.22	2258.50	0.19
		4-5	15.00	303.19	173.38	148.00	147.54	460.00	155.19	0.16	2964.11	15.00	17.00	9.66	2964.11	0.24
		4-6	18.00	303.80	174.18	150.29	150.01	280.00	153.51	0.15	1823.99	18.00	15.00	11.75	1823.99	0.18
		4-7	21.00	319.23	173.37	151.29	150.97	320.00	167.94	0.17	1905.44	21.00	35.00	10.40	1905.44	0.17
										AVG =	**2568.47**	23.00	0.00	2.00	1905.44	0.03
5.93	in/hr	avg									2568.47			**Total Solids Lost:**		**1.23**
24-Jul-12		6-1	3.00	332.61	162.21	151.12	150.86	260.00	181.49	0.18	1432.59	3.00	8.00	15.35	1432.59	0.18
		6-2	6.00	348.06	163.33	149.62	148.87	750.00	198.44	0.20	3779.48	6.00	9.00	22.06	3779.48	0.70
		6-3	9.00	329.39	179.04	148.00	147.47	530.00	181.39	0.18	2921.88	9.00	8.00	23.00	2921.88	0.56
		6-4	12.00	342.51	174.91	148.00	147.50	500.00	194.51	0.19	2570.56	12.00	7.00	24.07	2570.56	0.52
		6-5	15.00	343.72	178.73	149.10	148.68	420.00	194.62	0.19	2158.05	15.00	9.00	22.56	2158.05	0.41
		6-6	18.00	348.56	172.70	151.43	151.17	260.00	197.13	0.20	1318.93	18.00	9.00	23.57	1318.93	0.26
		6-7	21.00	346.35	160.94	151.09	150.64	450.00	195.26	0.20	2304.62	21.00	33.00	15.39	2304.62	0.30
										AVG =	**2355.16**	30.00	0.00	2.73	2304.62	0.05
											2355.16			**Total Solids Lost:**		**2.97**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.01	in/hr	avg														
27-Jul-12		2-1	3.00	325.34	155.03	151.64	151.59	50.00	173.70	0.17	287.85	3.00	635.95	0.28	287.85	0.00
		2-2	6.00	282.23	150.82	150.82	150.82	0.00	131.41	0.13	0.00	6.00	484.53	0.32	0.00	0.00
		2-3	9.00	305.66	156.33	151.00	150.55	450.00	154.66	0.15	2909.61	9.00	363.40	0.43	2909.61	0.01
		2-4	12.00	335.59	158.09	149.39	149.28	110.00	186.20	0.19	590.76	12.00	151.42	0.76	590.76	0.00
		2-5	15.00	353.95	161.37	151.39	150.73	660.00	202.56	0.20	3258.29	15.00	151.42	1.27	3258.29	0.03
		2-6	18.00	341.06	159.80	150.75	150.12	630.00	190.31	0.19	3310.39	18.00	151.42	1.15	3310.39	0.03
		2-7	21.00	312.90	156.82	151.21	150.71	500.00	161.69	0.16	3092.34	21.00	333.12	1.20	3092.34	0.03
										AVG =	**1921.32**	22.00	0.00	0.25	3092.34	0.01
3.92	in/hr	avg									1921.32			**Total Solids Lost:**		**0.12**
27-Jul-12		4-1	3.00	353.17	157.46	150.23	149.38	850.00	202.94	0.20	4188.43	3.00	242.27	0.70	4188.43	0.02
		4-2	6.00	316.64	157.00	152.31	151.64	670.00	164.33	0.16	4077.16	6.00	30.00	4.25	4077.16	0.14
		4-3	9.00	351.67	156.97	151.24	150.45	790.00	200.43	0.20	3941.53	9.00	18.00	7.64	3941.53	0.25
		4-4	12.00	342.13	158.34	151.08	150.45	630.00	191.05	0.19	3297.57	12.00	16.00	11.27	3297.57	0.31
		4-5	15.00	301.68	155.37	149.78	149.28	500.00	151.90	0.15	3291.64	15.00	15.00	11.62	3291.64	0.32
		4-6	18.00	309.30	156.41	150.61	149.98	630.00	158.69	0.16	3970.00	18.00	14.00	12.42	3970.00	0.41
		4-7	21.00	298.10	155.40	148.91	148.41	500.00	149.19	0.15	3351.43	21.00	22.00	11.90	3351.43	0.33
										AVG =	**3731.11**	23.00	0.00	2.14	3351.43	0.06
5.98	in/hr	avg									3731.11			**Total Solids Lost:**		**1.85**
27-Jul-12		6-1	3.00	328.81	161.54	150.69	150.58	110.00	178.12	0.18	617.56	3.00	26.00	8.28	617.56	0.04
		6-2	6.00	344.64	161.58	149.85	149.38	470.00	194.79	0.19	2412.85	6.00	10.00	15.96	2412.85	0.32
		6-3	9.00	340.90	155.92	149.26	148.83	430.00	191.64	0.19	2243.79	9.00	8.00	19.30	2243.79	0.36
		6-4	12.00	348.94	157.28	151.38	150.94	440.00	197.56	0.20	2227.17	12.00	9.00	22.06	2227.17	0.41
		6-5	15.00	350.52	158.40	150.88	150.32	560.00	199.64	0.20	2805.05	15.00	7.00	22.56	2805.05	0.53
		6-6	18.00	330.95	155.76	150.17	149.74	430.00	180.78	0.18	2378.58	18.00	6.00	27.80	2378.58	0.55
		6-7	21.00	342.82	153.93	150.15	149.66	490.00	192.67	0.19	2543.21	21.00	22.00	23.37	2543.21	0.50
										AVG =	**2175.46**	30.00	0.00	4.29	2543.21	0.09
											2175.46			**Total Solids Lost:**		**2.80**

25-Jul-12
Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.17 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	9085	0.01	0.01	0.01	
2-2	2.00	530	0.01	0.01	0.03	
2-3	3.00	530	0.11	0.11	0.14	
2-4	4.00	530	0.11	0.11	0.25	
2-5	5.00	469	0.12	0.12	0.37	
2-6	6.00	485	0.13	0.13	0.50	
2-7	7.00	454	0.13	0.13	0.63	
2-8	8.00	333	0.15	0.15	0.78	
2-9	9.00	379	0.17	0.17	0.95	
2-10	10.00	348	0.17	0.17	1.11	
2-11	11.00	212	0.21	0.21	1.33	
2-12	12.00	227	0.27	0.27	1.60	
2-13	13.00	136	0.33	0.33	1.93	
2-14	14.00	121	0.47	0.47	2.40	
2-15	15.00	121	0.50	0.50	2.89	
2-16	16.00	121	0.50	0.50	3.39	
2-17	17.00	121	0.50	0.50	3.88	
2-18	18.00	121	0.50	0.50	4.38	
2-19	19.00	121	0.50	0.50	4.87	
2-20	20.00	121	0.50	0.50	5.37	
2-21	21.00	333	0.26	0.26	5.63	
2-end	22.00	0	0.25	0.25	5.88	
					5.88	**Total Collected Runoff (approx)**
4.07 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	45	2.67	2.67	2.67	
4-2	2	29	1.62	1.62	4.29	
4-3	3	27	2.14	2.14	6.43	
4-4	4	24	2.35	2.35	8.78	
4-5	5	23	2.55	2.55	11.34	
4-6	6	23	2.61	2.61	13.94	
4-7	7	23	2.61	2.61	16.55	
4-8	8	23	2.61	2.61	19.16	
4-9	9	23	2.61	2.61	21.77	
4-10	10	23	2.61	2.61	24.38	
4-11	11	23	2.61	2.61	26.99	
4-12	12	23	2.61	2.61	29.59	
4-13	13	22	2.67	2.67	32.26	
4-14	14	22	2.73	2.73	34.99	
4-15	15	22	2.73	2.73	37.72	
4-16	16	22	2.73	2.73	40.44	
4-17	17	22	2.73	2.73	43.17	
4-18	18	21	2.79	2.79	45.96	
4-19	19	21	2.86	2.86	48.82	
4-20	20	21	2.86	2.86	51.67	
4-21	21	53	1.62	1.62	53.29	
4-end	23.00	0	1.43	1.43	54.72	
					54.72	**Total Collected Runoff (approx)**
6.20 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	20	6.00	6.00	6.00	
6-2	2	11	3.87	3.87	9.87	
6-3	3	9	6.00	6.00	15.87	
6-4	4	9	6.67	6.67	22.54	
6-5	5	9	6.67	6.67	29.20	
6-6	6	8	7.06	7.06	36.26	
6-7	7	8	7.50	7.50	43.76	
6-8	8	8	7.50	7.50	51.26	
6-9	9	8	7.50	7.50	58.76	
6-10	10	8	7.50	7.50	66.26	
6-11	11	8	7.50	7.50	73.76	
6-12	12	8	7.50	7.50	81.25	
6-13	13	8	7.50	7.50	88.75	
6-14	14	8	7.50	7.50	96.25	
6-15	15	8	7.50	7.50	103.75	
6-16	16	8	7.50	7.50	111.25	
6-17	17	7	8.00	8.00	119.25	
6-18	18	7	8.57	8.57	127.82	
6-19	19	7	8.57	8.57	136.39	
6-20	20	7	8.57	8.57	144.96	
6-21	21	26	3.64	3.64	148.60	
6-end	30.00	0	4.29	4.29	152.88	
					152.88	**Total Collected Runoff (approx)**

24-Jul-12
Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.13 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	651	0.18	0.18	0.18	
2-2	2.00	621	0.09	0.09	0.28	
2-3	3.00	606	0.10	0.10	0.38	
2-4	4.00	560	0.10	0.10	0.48	
2-5	5.00	454	0.12	0.12	0.60	
2-6	6.00	454	0.13	0.13	0.73	
2-7	7.00	424	0.14	0.14	0.87	
2-8	8.00	379	0.15	0.15	1.02	
2-9	9.00	379	0.16	0.16	1.17	
2-10	10.00	348	0.17	0.17	1.34	
2-11	11.00	333	0.18	0.18	1.52	
2-12	12.00	303	0.19	0.19	1.70	
2-13	13.00	273	0.21	0.21	1.91	
2-14	14.00	227	0.24	0.24	2.15	
2-15	15.00	212	0.27	0.27	2.43	
2-16	16.00	197	0.29	0.29	2.72	
2-17	17.00	197	0.30	0.30	3.02	
2-18	18.00	182	0.32	0.32	3.34	
2-19	19.00	151	0.36	0.36	3.70	
2-20	20.00	151	0.40	0.40	4.10	
2-21	21.00	288	0.27	0.27	4.37	
2-end	22.00	0	0.20	0.20	4.57	
					4.57	**Total Collected Runoff (approx)**
4.02 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	348	0.34	0.34	0.34	
4-2	2	182	0.23	0.23	0.57	
4-3	3	35	0.55	0.55	1.12	
4-4	4	24	2.03	2.03	3.16	
4-5	5	24	2.50	2.50	5.66	
4-6	6	23	2.55	2.55	8.21	
4-7	7	22	2.67	2.67	10.88	
4-8	8	21	2.79	2.79	13.67	
4-9	9	21	2.86	2.86	16.52	
4-10	10	17	3.16	3.16	19.68	
4-11	11	17	3.53	3.53	23.21	
4-12	12	17	3.53	3.53	26.74	
4-13	13	21	3.16	3.16	29.90	
4-14	14	18	3.08	3.08	32.97	
4-15	15	17	3.43	3.43	36.40	
4-16	16	15	3.75	3.75	40.15	
4-17	17	15	4.00	4.00	44.15	
4-18	18	15	4.00	4.00	48.15	
4-19	19	15	4.00	4.00	52.15	
4-20	20	15	4.00	4.00	56.15	
4-21	21	35	2.40	2.40	58.55	
4-end	23	0	2.00	2.00	60.55	
					60.55	**Total Collected Runoff (approx)**
5.93 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	21	5.71	5.71	5.71	
6-2	2	12	3.64	3.64	9.35	
6-3	3	8	6.00	6.00	15.35	
6-4	4	9	7.06	7.06	22.41	
6-5	5	7	7.50	7.50	29.91	
6-6	6	9	7.50	7.50	37.41	
6-7	7	7	7.50	7.50	44.90	
6-8	8	8	8.00	8.00	52.90	
6-9	9	8	7.50	7.50	60.40	
6-10	10	8	7.50	7.50	67.90	
6-11	11	7	8.00	8.00	75.90	
6-12	12	7	8.57	8.57	84.47	
6-13	13	8	8.00	8.00	92.47	
6-14	14	8	7.50	7.50	99.97	
6-15	15	9	7.06	7.06	107.03	
6-16	16	7	7.50	7.50	114.53	
6-17	17	7	8.57	8.57	123.10	
6-18	18	9	7.50	7.50	130.60	
6-19	19	9	6.67	6.67	137.26	
6-20	20	11	6.00	6.00	143.26	
6-21	21	33	2.73	2.73	145.99	
6-end	30	0	2.73	2.73	148.72	
					148.72	**Total Collected Runoff (approx)**

27-Jul-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.01 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	908	0.13	0.13	0.13	
2-2	2.00	908	0.07	0.07	0.20	
2-3	3.00	636	0.08	0.08	0.28	
2-4	4.00	606	0.10	0.10	0.37	
2-5	5.00	515	0.11	0.11	0.48	
2-6	6.00	485	0.12	0.12	0.60	
2-7	7.00	454	0.13	0.13	0.73	
2-8	8.00	394	0.14	0.14	0.87	
2-9	9.00	363	0.16	0.16	1.03	
2-10	10.00	303	0.18	0.18	1.21	
2-11	11.00	197	0.24	0.24	1.45	
2-12	12.00	151	0.34	0.34	1.79	
2-13	13.00	136	0.42	0.42	2.21	
2-14	14.00	136	0.44	0.44	2.65	
2-15	15.00	151	0.42	0.42	3.07	
2-16	16.00	182	0.36	0.36	3.43	
2-17	17.00	136	0.38	0.38	3.80	
2-18	18.00	151	0.42	0.42	4.22	
2-19	19.00	121	0.44	0.44	4.66	
2-20	20.00	121	0.50	0.50	5.16	
2-21	21.00	333	0.26	0.26	5.42	
2-end	22.00	0	0.25	0.25	5.67	
					5.67	**Total Collected Runoff (approx)**
3.92 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	394	0.30	0.30	0.30	
4-2	2	303	0.17	0.17	0.48	
4-3	3	242	0.22	0.22	0.70	
4-4	4	36	0.43	0.43	1.13	
4-5	5	30	1.82	1.82	2.95	
4-6	6	30	2.00	2.00	4.95	
4-7	7	26	2.14	2.14	7.09	
4-8	8	22	2.50	2.50	9.59	
4-9	9	18	3.00	3.00	12.59	
4-10	10	16	3.53	3.53	16.12	
4-11	11	15	3.87	3.87	19.99	
4-12	12	16	3.87	3.87	23.86	
4-13	13	16	3.75	3.75	27.61	
4-14	14	15	3.87	3.87	31.48	
4-15	15	15	4.00	4.00	35.48	
4-16	16	15	4.00	4.00	39.48	
4-17	17	14	4.14	4.14	43.62	
4-18	18	14	4.29	4.29	47.90	
4-19	19	14	4.29	4.29	52.19	
4-20	20	14	4.29	4.29	56.47	
4-21	21	22	3.33	3.33	59.80	
4-end	23	0	2.14	2.14	61.95	
					61.95	**Total Collected Runoff (approx)**
5.98 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	31	3.87	3.87	3.87	
6-2	2	26	2.11	2.11	5.98	
6-3	3	26	2.31	2.31	8.28	
6-4	4	10	3.33	3.33	11.62	
6-5	5	9	6.32	6.32	17.93	
6-6	6	10	6.32	6.32	24.25	
6-7	7	9	6.32	6.32	30.56	
6-8	8	10	6.32	6.32	36.88	
6-9	9	8	6.67	6.67	43.54	
6-10	10	8	7.50	7.50	51.04	
6-11	11	8	7.50	7.50	58.54	
6-12	12	9	7.06	7.06	65.60	
6-13	13	8	7.06	7.06	72.66	
6-14	14	8	7.50	7.50	80.16	
6-15	15	7	8.00	8.00	88.16	
6-16	16	7	8.57	8.57	96.73	
6-17	17	6	9.23	9.23	105.96	
6-18	18	6	10.00	10.00	115.95	
6-19	19	6	10.00	10.00	125.95	
6-20	20	7	9.23	9.23	135.18	
6-21	21	22	4.14	4.14	139.32	
6-end	30	0	4.29	4.29	143.61	
					143.61	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	25-Jul-12	24-Jul-12	27-Jul-12
Avg Moisture Content:	**22.47%**	**21.81%**	**22.58%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	248.04	254.01	244.47
Wt. Of cup + dry soil, g	242.21	247.64	239.28
Wt. Of cup, g	217.07	217.07	217.07
Wt. Of dry soil, g	25.14	30.57	22.21
Wt. Of water, g	5.83	6.37	5.19
Water Content, w%	23.2%	20.8%	23.4%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	242.73	248.42	245.15
Wt. Of cup + dry soil, g	238	242.53	239.95
Wt. Of cup, g	216.97	216	216.97
Wt. Of dry soil, g	21.03	26.53	22.98
Wt. Of water, g	4.73	5.89	5.2
Water Content, w%	22.5%	22.2%	22.6%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	238.48	245.23	257.12
Wt. Of cup + dry soil, g	234.66	240.08	249.97
Wt. Of cup, g	217.08	217.08	217.08
Wt. Of dry soil, g	17.58	23	32.89
Wt. Of water, g	3.82	5.15	7.15
Water Content, w%	21.7%	22.4%	21.7%

Soil Loss Data

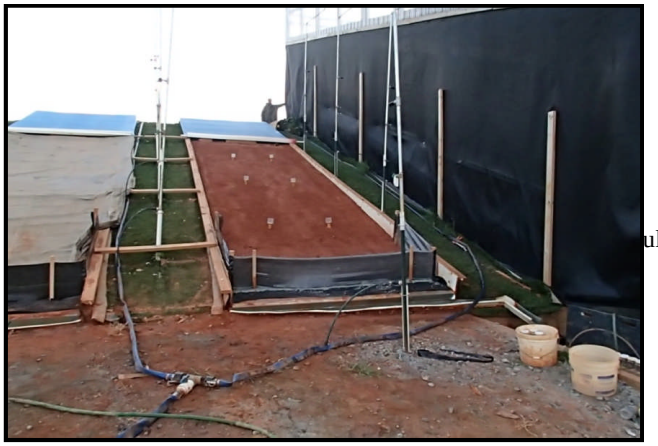
Slope No.	1	2	3
Test Date:	25-Jul-12	24-Jul-12	27-Jul-12
Total Soil Loss	**6.42**	**4.30**	**4.40**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		90.8	51.3	45.4
Sub-Sample	Wt. Of cup + wet soil, g	90.8	51.3	45.4
	Wt. Of cup + dry soil, g	90.8	51.3	45.4
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	90.8	51.3	45.4
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.200	0.113	0.100

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		1144.5	549.3	817.2
Sub-Sample	Wt. Of cup + wet soil, g	1144.5	549.3	817.2
	Wt. Of cup + dry soil, g	1144.5	549.3	817.2
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	1144.5	549.3	817.2
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		2.521	1.210	1.800

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		1679.8	1352.9	1135.0
Sub-Sample	Wt. Of cup + wet soil, g	1679.8	1352.9	1135.0
	Wt. Of cup + dry soil, g	1679.8	1352.9	1135.0
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	1679.8	1352.9	1135
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		3.700	2.980	2.500

TYPICAL TESTING PICTURES



Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 27-Jul-12

Start Rain: 6:58 AM | End Rain: 7:18 AM

Sampling interval: 0:03 | End Run: 7:20 AM

Rain Time (min): 20.00 | 22.00

Product: 1935-B | Descr:. Belton Type B Silt Fence

Lot #: | Posts: Wood | 6-ft

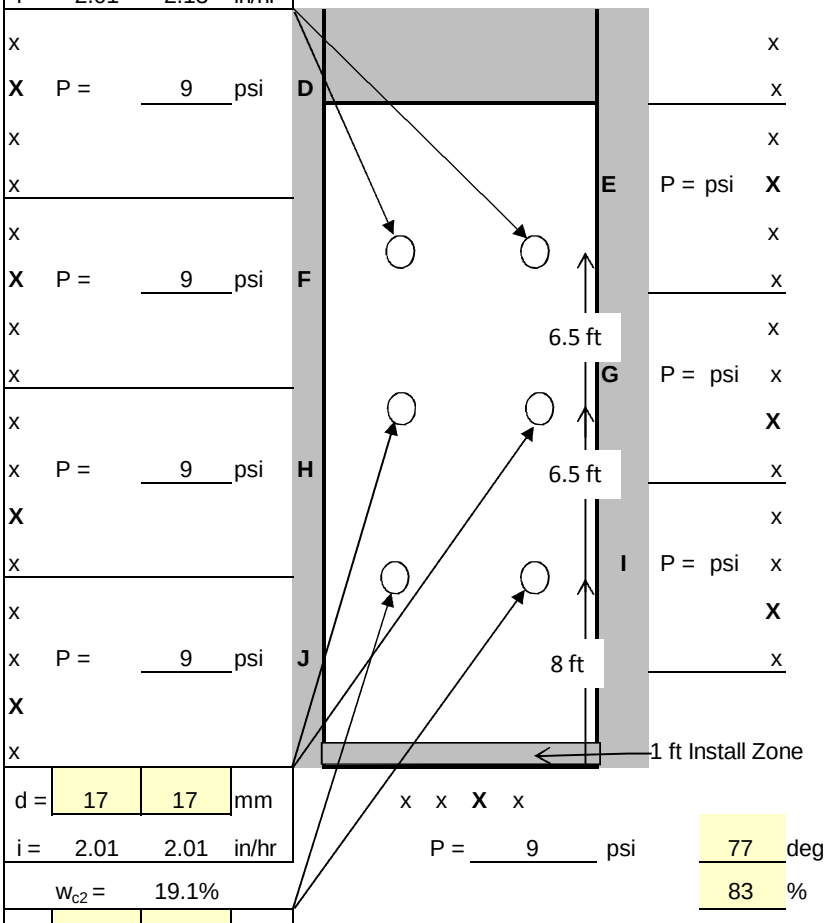
TOP OF SLOPE

(circle "x" for open valves)

w_{c1} = 20.5%

d = 17 | 18 mm

i = 2.01 | 2.13 in/hr



X P = 9 psi (D)

X P = 9 psi (F)

P = 9 psi (H)

X P = 9 psi (J)

P = psi (E)

P = psi (G)

P = psi (I)

P = 9 psi

77 deg

83 %

d = 17 | 17 mm

i = 2.01 | 2.01 in/hr

w_{c2} = 19.1%

d = 17 | 20 mm

i = 2.01 | 2.36 in/hr

w_{c3} = 22.2%

Average Depth: 18 mm

Avg Rainfall Intensity: 2.09 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:01	X	X
7:04	X	X
7:07	X	X
7:10	X	X
7:13	X	X
7:16	X	X
7:19	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	54
2	250	45
3	250	40
4	250	40
5	250	40
6	250	40
7	250	40
8	250	40
9	250	35
10	250	33
11	250	30
12	250	25
13	250	19
14	250	13
15	250	11
16	250	9
17	250	7
18	250	5
19	250	4
20	250	5
21	250	20
22	250	0

NOTES:

Wind: 0 mph. Direction: W

Approx 5 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

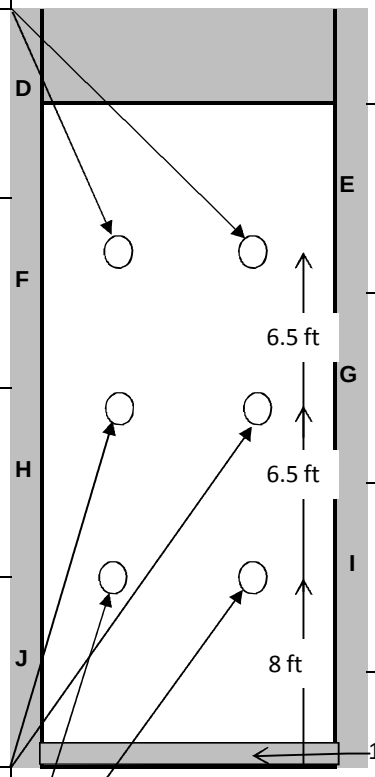
Date:	27-Jul-12	Start Rain:	7:26 AM	d Ra	7:46 AM
		Sampling interval:	0:03	l Run	7:49 AM
		Rain Time (min):	20.00		23.00
Product:	1935	Descr:.	Belton Type B Silt Fence		
Lot #:		Posts:	Wood		6-ft

TOP OF SLOPE

(circle "x" for open valves)

w_{c1} = 20.5%

d =	33	34	mm
i =	3.90	4.02	in/hr



d =	36	35	mm
i =	4.25	4.13	in/hr

w_{c2} = 19.1%

d =	30	34	mm
i =	3.54	4.02	in/hr

w_{c3} = 22.2%

P = 9 psi | 77 deg | 83 %

Average Depth: 34 mm

Avg Rainfall Intensity: 3.98 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:29	X	X
7:32	X	X
7:35	X	X
7:38	X	X
7:41	X	X
7:44	X	X
7:47	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	50
2	3785	50
3	3785	45
4	3785	41
5	3785	35
6	3785	31
7	3785	27
8	3785	25
9	3785	23
10	3785	18
11	3785	16
12	3785	19
13	3785	17
14	3785	16
15	3785	15
16	3785	16
17	3785	14
18	3785	14
19	3785	14
20	3785	21
21	3785	53
23	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 60 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 27-Jul-12 | Start Rain: 7:53 AM | End Rain: 8:13 AM

Sampling interval: 0:03 | End Run: 8:23 AM

Rain Time (min): 20.00 | 30.00

Product: 1935 | Descr:. Belton Type B Silt Fence

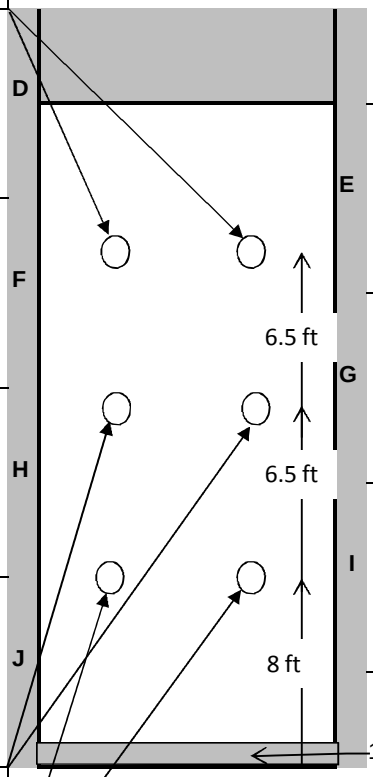
Lot #: | Posts: Wood | 6-ft

TOP OF SLOPE

(circle "x" for open valves)

w_{c1} = 20.5%

d =	49	51	mm				
i =	5.79	6.02	in/hr				
x							x
X	P =	9	psi	D			x
x							x
x					E	P = psi	X
x							x
X	P =	9	psi	F			x
x							x
x					G	P = psi	x
x							X
x	P =	9	psi	H			x
X							x
x					I	P = psi	x
x							X
x	P =	9	psi	J			x
X							
x							1 ft Install Zone
d =	49	51	mm				
i =	5.79	6.02	in/hr				
w_{c2} =	19.1%						
d =	53	52	51				
i =	6.26	6.14	in/hr				
w_{c3} =	22.2%						



x x **X** x

P = 9 psi | 78 deg

82 %

Average Depth: 51 mm

Avg Rainfall Intensity: 6.00 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:56	X	X
7:59	X	X
8:02	X	X
8:05	X	X
8:08	X	X
8:11	X	X
8:14	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	22
2	3785	17
3	3785	9
4	3785	8
5	3785	8
6	3785	7
7	3785	8
8	3785	7
9	3785	8
10	3785	7
11	3785	6
12	3785	6
13	3785	6
14	3785	6
15	3785	6
16	3785	6
17	3785	6
18	3785	6
19	3785	6
20	3785	6
21	3785	13
30	3785	0

NOTES: Overtopping at 16 minutes.

Wind: 0 mph. Direction: W

Approx 180 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

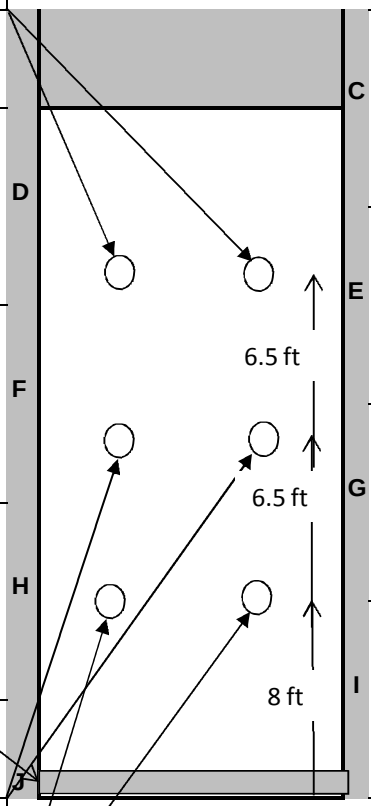
Date:	31-Jul-12	Start Rain:	8:37 AM	d Ra	8:57 AM
		Sampling interval:	0:03	l Run	9:00 AM
		Rain Time (min):	20.00		23.00
Product:	1935	Descr:.	Belton Type B Silt Fence		
Lot #:		Posts:	Wood		6-ft

TOP OF SLOPE

(circle "x" for open valves)

w_{c1} = 20.5%

d =	17	17	mm
i =	2.01	2.01	in/hr



					x	
				C	P = psi	X
x					x	
X	P =	9	psi	D	x	
x					x	
x				E	P = psi	X
x					x	
X	P =	9	psi	F	x	
x					x	
x				G	P = psi	x
x					X	
x	P =	9	psi	H	x	
X					x	
x				I	P = psi	x
1 ft Install Zone					X	
				J	x	

d =	18	17	mm
i =	2.13	2.01	in/hr
w_{c2} =	19.1%		
d =	19	20	mm
i =	2.24	2.36	in/hr
w_{c3} =	22.2%		

x x **X** x

P = 9 psi

72 deg

91 %

Average Depth: 18 mm

Avg Rainfall Intensity: 2.13 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:40	X	X
8:43	X	X
8:46	X	X
8:49	X	X
8:52	X	X
8:55	X	X
8:58	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	24
2	250	22
3	250	20
4	250	17
5	250	17
6	250	16
7	250	15
8	250	16
9	250	15
10	250	14
11	250	14
12	250	13
13	250	13
14	250	14
15	250	11
16	250	12
17	250	11
18	250	11
19	250	10
20	250	9
21	250	22
23	250	0

NOTES:

Wind: 1 mph. Direction: E

Approx 5 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 31-Jul-12 | Start Rain: 9:03 AM | d Ra 9:23 AM

Sampling interval: 0:03 | l Run 9:26 AM

Rain Time (min): 20.00 | 23.00

Product: 1935 | Descr:. Belton Type B Silt Fence

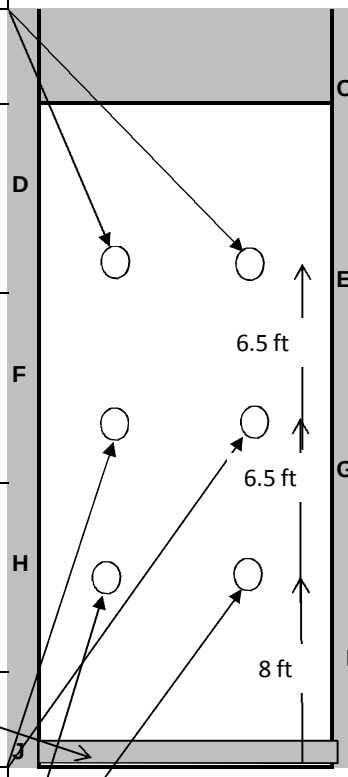
Lot #: | Posts: Wood | 6-ft

TOP OF SLOPE

(circle "x" for open valves)

w_{c1} = 20.5%

d =	34	34	mm				
i =	4.02	4.02	in/hr				
							x
					C	P = psi	X
x							x
X	P =	9	psi	D			x
x							x
x					E	P = psi	X
x							x
X	P =	9	psi	F			x
x							x
x					G	P = psi	x
x							X
x	P =	9	psi	H			x
X							x
x					I	P = psi	x
							X
				J			x
d =	36	30	mm				
i =	4.25	3.54	in/hr				
	w_{c2} =	19.1%					
d =	34	35	mm				
i =	4.02	4.13	in/hr				
	w_{c3} =	22.2%					



x x **X** x

P = 9 psi | 71 deg

93 %

Average Depth: 34 mm

Avg Rainfall Intensity: 4.00 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:06	X	X
9:09	X	X
9:12	X	X
9:15	X	X
9:18	X	X
9:21	X	X
9:24	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	22
2	250	12
3	250	11
4	3785	42
5	3785	40
6	3785	24
7	3785	17
8	3785	17
9	3785	18
10	3785	17
11	3785	18
12	3785	17
13	3785	16
14	3785	16
15	3785	16
16	3785	15
17	3785	15
18	3785	14
19	3785	14
20	3785	13
21	3785	30
23	3785	0

NOTES:

Wind: 1-3 mph. Direction: E

Approx 65 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date:	31-Jul-12	Start Rain:	9:31 AM	d Ra	9:51 AM
		Sampling interval:	0:03	l Run	10:01 AM
		Rain Time (min):	20.00		30.00
Product:	1935	Descr:.	Belton Type B Silt Fence		
Lot #:		Posts:	Wood		6-ft

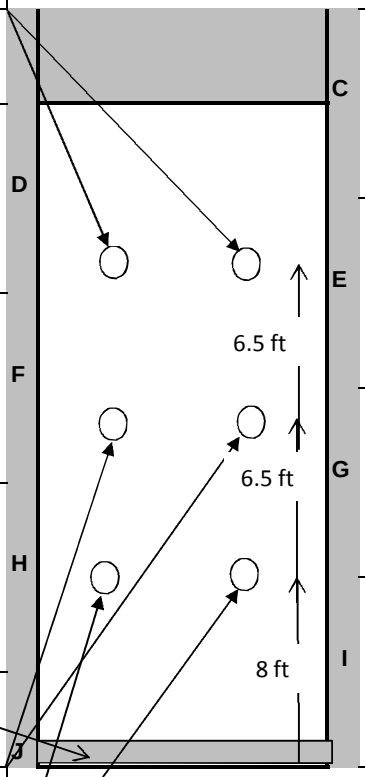
TOP OF SLOPE

(circle "x" for open valves)

w_{c1} = 20.5%

d = 54 53 mm

i = 6.38 6.26 in/hr



				C	P = psi	X
x						x
X	P =	9	psi	D		x
x						x
x				E	P = psi	X
x						x
X	P =	9	psi	F		x
x						x
x				G	P = psi	x
x						X
x	P =	9	psi	H		x
X						x
x				I	P = psi	x
						X
				J		x

d = 53 50 mm

i = 6.26 5.91 in/hr

w_{c2} = 19.1%

d = 54 48 mm

i = 6.38 5.67 in/hr

w_{c3} = 22.2%

x x **X** x

P = 9 psi

71 deg

94 %

Average Depth: **52** **mm**

Avg Rainfall Intensity: **6.14** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:34	X	X
9:37	X	X
9:40	X	X
9:43	X	X
9:46	X	X
9:49	X	X
9:52	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	20
2	3785	12
3	3785	9
4	3785	8
5	3785	7
6	3785	7
7	3785	8
8	3785	8
9	3785	9
10	3785	8
11	3785	7
12	3785	7
13	3785	6
14	3785	6
15	3785	5
16	3785	5
17	3785	5
18	3785	5
19	3785	5
20	3785	5
21	3785	18
30	3785	0

NOTES: Overtopping at 12 minutes.

Wind: 1-3 mph. Direction: E

Approx 185 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date:	31-Jul-12	Start Rain:	6:50 AM	d Ra	7:10 AM
		Sampling interval:	0:03	d Run	7:11 AM
		Rain Time (min):	20.00		21.00
Product:	1935	Descr:.	Belton Type B Silt Fence		
Lot #:		Posts:	Wood		6-ft

TOP OF SLOPE

(circle "x" for open valves)

w_{c1} = 20.5%

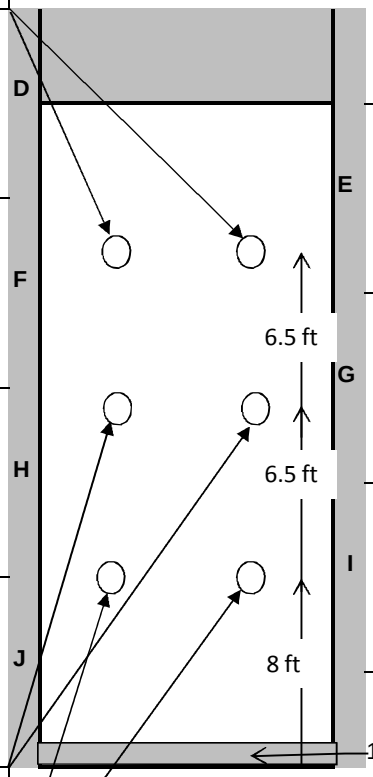
d =	19	17	mm
i =	2.24	2.01	in/hr

x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
x P = 9 psi **J**
X
x



x
x
x
E P = psi **X**
x
x
x
G P = psi x
X
x
x
I P = psi x
X
x

d =	17	17	mm
i =	2.01	2.01	in/hr

w_{c2} = 19.1%

x x **X** x

P = 9 psi

72 deg

88 %

d =	17	17	mm
i =	2.01	2.01	in/hr

w_{c3} = 22.2%

Average Depth: 17 mm

Avg Rainfall Intensity: 2.05 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
6:53	X	X
6:56	X	X
6:59	X	X
7:02	X	X
7:05	X	X
7:08	X	X
7:11	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	60
2	250	36
3	250	34
4	250	34
5	250	29
6	250	33
7	250	22
8	250	19
9	250	21
10	250	31
11	250	29
12	250	24
13	250	22
14	250	25
15	250	20
16	250	32
17	250	26
18	250	17
19	250	12
20	250	15
21	250	22
21	250	0

NOTES: Test on Slope G2
Wind: 0 mph. Direction: E
Approx 5 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date:	31-Jul-12	Start Rain:	7:23 AM	d Ra	7:43 AM
		Sampling interval:	0:03	d Run	7:47 AM
		Rain Time (min):	20.00		24.00
Product:	1935	Descr:.	Belton Type B Silt Fence		
Lot #:		Posts:	Wood		6-ft

TOP OF SLOPE

(circle "x" for open valves)

w_{c1} = 20.5%

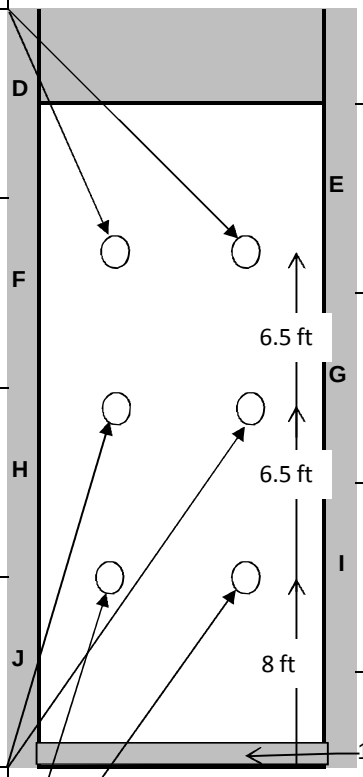
d =	30	34	mm
i =	3.54	4.02	in/hr

x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
x P = 9 psi **J**
X
x



x
x
x
E P = psi **X**
x
x
x
G P = psi x
X
x
x
I P = psi x
X
x

d =	34	36	mm
i =	4.02	4.25	in/hr

w_{c2} = 19.1%

d =	33	34	mm
i =	3.90	4.02	in/hr

w_{c3} = 22.2%

x x **X** x

P = 9 psi

72 deg

88 %

Average Depth: 34 mm

Avg Rainfall Intensity: 3.96 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:26	X	X
7:29	X	X
7:32	X	X
7:35	X	X
7:38	X	X
7:41	X	X
7:44	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	11
2	250	9
3	250	9
4	3785	60
5	3785	45
6	3785	40
7	3785	35
8	3785	28
9	3785	26
10	3785	20
11	3785	18
12	3785	16
13	3785	16
14	3785	15
15	3785	15
16	3785	15
17	3785	14
18	3785	14
19	3785	14
20	3785	14
21	3785	33
24	3785	0

NOTES:
Wind: 0 mph. Direction: W
Approx 60 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 31-Jul-12 | Start Rain: 7:50 AM | End Rain: 8:10 AM | Sampling interval: 0:03 | End Run: 8:20 AM

Rain Time (min): 20.00 | 30.00

Product: 1935 | Descr:. Belton Type B Silt Fence

Lot #: | Posts: Wood | 6-ft

TOP OF SLOPE

(circle "x" for open valves)

w_{c1} = 20.5%

d = 54 | 52 mm

i = 6.38 | 6.14 in/hr

x

X P = 9 psi **D**

x

x

x

E P = psi **X**

x

x

X P = 9 psi **F**

x

x

G P = psi x

x

X

x P = 9 psi **H**

X

x

I P = psi x

x

X

x P = 9 psi **J**

X

x

1 ft Install Zone

6.5 ft

6.5 ft

8 ft

d = 50 | 54 mm

i = 5.91 | 6.38 in/hr

w_{c2} = 19.1%

x x **X** x

P = 9 psi | 72 deg | 90 %

d = 50 | 53 mm

i = 5.91 | 6.26 in/hr

w_{c3} = 22.2%

Average Depth: 52 mm

Avg Rainfall Intensity: 6.16 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:53	X	X
7:56	X	X
7:59	X	X
8:02	X	X
8:05	X	X
8:08	X	X
8:11	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	25
2	3785	22
3	3785	16
4	3785	16
5	3785	14
6	3785	9
7	3785	8
8	3785	7
9	3785	6
10	3785	6
11	3785	5
12	3785	5
13	3785	5
14	3785	5
15	3785	5
16	3785	5
17	3785	5
18	3785	5
19	3785	10
20	3785	11
21	3785	28
30	3785	0

NOTES: Overtopping at 5 minutes.
Wind: 0 mph. Direction: E
Approx 175 gallons collected.

1935-B Belton Type B Silt Fence

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	22.6
2	20	60.2
3	20	106

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	1066	2-1	3.00	1342	2-1	3.00	921
2-2	6.00	880	2-2	6.00	1354	2-2	6.00	1003
2-3	9.00	794	2-3	9.00	2087	2-3	9.00	874
2-4	12.00	672	2-4	12.00	1455	2-4	12.00	748
2-5	15.00	3574	2-5	15.00	1491	2-5	15.00	983
2-6	18.00	3392	2-6	18.00	1295	2-6	18.00	1232
2-7	21.00	1594	2-7	21.00	1247	2-7	21.00	1384
avg		**1710**	avg		**1467**	avg		**1021**
4-1	3.00	4743	4-1	2.00	2991	4-1	2.00	1766
4-2	6.00	2362	4-2	4.00	1838	4-2	4.00	1534
4-3	9.00	2275	4-3	6.00	1328	4-3	6.00	1200
4-4	12.00	1827	4-4	8.00	1310	4-4	8.00	1035
4-5	15.00	1890	4-5	10.00	1472	4-5	10.00	1037
4-6	18.00	1730	4-6	12.00	1594	4-6	12.00	965
4-7	21.00	1302	4-7	21.00	803	4-7	21.00	873
avg		**2304**	avg		**1619**	avg		**1201**
6-1	3.00	2323	6-1	3.00	2141	6-1	3.00	1500
6-2	6.00	2232	6-2	6.00	2198	6-2	6.00	1517
6-3	9.00	2210	6-3	9.00	1995	6-3	9.00	1710
6-4	12.00	1986	6-4	12.00	2110	6-4	12.00	2194
6-5	15.00	1902	6-5	15.00	2137	6-5	15.00	2122
6-6	18.00	1932	6-6	18.00	2203	6-6	18.00	1622
6-7	21.00	1580	6-7	21.00	1966	6-7	21.00	781
avg		**2024**	avg		**2107**	avg		**1635**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.09	in/hr	avg													
27-Jul-12		2-1	3.00	322.57	159.03	151.53	151.41	120.00	171.04	701.59	3.00	605.67	0.32	701.59	0.00
		2-2	6.00	175.93	150.05	147.27	147.18	90.00	28.66	3140.27	6.00	605.67	0.30	3140.27	0.01
		2-3	9.00	231.09	157.80	149.78	149.76	20.00	81.31	245.97	9.00	529.96	0.30	245.97	0.00
		2-4	12.00	299.42	156.68	147.82	147.71	110.00	151.60	725.59	12.00	378.54	0.39	725.59	0.00
		2-5	15.00	335.83	158.59	150.42	149.09	1330.00	185.41	7173.29	15.00	166.56	0.76	7173.29	0.05
		2-6	18.00	344.22	158.57	150.44	149.66	780.00	193.78	4025.18	18.00	75.71	1.55	4025.18	0.05
		2-7	21.00	277.25	157.09	149.80	149.55	250.00	127.45	1961.55	21.00	302.83	2.08	1961.55	0.03
										2567.64	22.00	0	0.40	1961.55	0.01
3.98	in/hr	avg								2567.64			**Total Solids Lost:**		**0.15**
27-Jul-12		4-1	3.00	276.90	158.15	151.63	150.67	960.00	125.27	7663.45	3.00	45.00	4.86	7663.45	0.31
		4-2	6.00	298.95	154.75	149.79	149.76	30.00	149.16	201.13	6.00	31.00	4.79	201.13	0.01
		4-3	9.00	327.05	170.16	150.45	149.94	510.00	176.60	2887.88	9.00	23.00	6.88	2887.88	0.17
		4-4	12.00	304.59	160.34	151.78	151.38	400.00	152.81	2617.63	12.00	19.00	9.88	2617.63	0.22
		4-5	15.00	331.56	164.70	146.54	146.31	230.00	185.02	1243.11	15.00	15.00	10.84	1243.11	0.11
		4-6	18.00	335.35	158.80	151.39	150.97	420.00	183.96	2283.11	18.00	14.00	12.16	2283.11	0.23
		4-7	21.00	346.17	159.68	150.69	150.54	150.00	195.48	767.34	21.00	53.01	9.33	767.34	0.06
										2523.38	23.00	0.00	1.43	767.34	0.01
6.00	in/hr	avg								2523.38			**Total Solids Lost:**		**1.11**
27-Jul-12		6-1	3.00	321.26	159.80	150.86	150.83	30.00	170.40	176.06	3.00	9.00	8.53	176.06	0.01
		6-2	6.00	324.93	156.59	149.50	149.27	230.00	175.43	1311.06	6.00	7.00	15.50	1311.06	0.17
		6-3	9.00	319.84	156.26	149.42	149.14	280.00	170.42	1643.00	9.00	8.00	24.00	1643.00	0.33
		6-4	12.00	312.81	152.98	147.87	147.52	350.00	164.94	2121.98	12.00	6.00	27.23	2121.98	0.48
		6-5	15.00	333.25	157.34	150.96	150.61	350.00	182.29	1920.02	15.00	6.00	30.00	1920.02	0.48
		6-6	18.00	329.72	157.23	151.19	151.17	20.00	178.53	112.03	18.00	6.00	30.00	112.03	0.03
		6-7	21.00	363.52	159.57	150.67	150.40	270.00	212.85	1268.50	21.00	13.00	26.31	1268.50	0.28
										1221.81	30.00	0.00	5.00	1268.50	0.05
										1221.81			**Total Solids Lost:**		**1.83**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.13	in/hr	avg													
31-Jul-12		2-1	3.00	244.30	155.98	151.65	151.41	240.00	92.65	2590.39	3.00	302.83	0.69	2590.39	0.01
		2-2	6.00	349.86	155.35	148.02	147.78	240.00	201.84	1189.06	6.00	242.27	0.69	1189.06	0.01
		2-3	9.00	347.44	154.99	150.09	149.76	330.00	197.35	1672.16	9.00	227.12	0.77	1672.16	0.01
		2-4	12.00	345.11	153.00	150.03	147.71	2320.00	195.08	11892.56	12.00	196.84	0.85	11892.56	0.08
		2-5	15.00	343.27	153.72	150.10	147.09	3010.00	193.17	15582.13	15.00	166.56	0.92	15582.13	0.12
		2-6	18.00	314.26	153.83	149.93	149.66	270.00	164.33	1643.04	18.00	166.56	1.05	1643.04	0.01
		2-7	21.00	325.33	153.20	149.91	149.55	360.00	175.42	2052.22	21.00	333.12	1.05	2052.22	0.02
										5231.65	23.00	0.00	0.22	2052.22	0.00
4.00	in/hr	avg								5231.65			**Total Solids Lost:**		**0.27**
31-Jul-12		4-1	3.00	339.44	157.54	151.06	150.67	390.00	188.38	2070.28	3.00	166.56	0.94	2070.28	0.02
		4-2	6.00	355.19	154.64	149.85	149.76	90.00	205.34	438.30	6.00	24.00	3.91	438.30	0.01
		4-3	9.00	310.31	153.99	150.17	149.94	230.00	160.14	1436.24	9.00	18.00	9.88	1436.24	0.12
		4-4	12.00	350.53	160.06	151.57	151.38	190.00	198.96	954.97	12.00	17.00	10.28	954.97	0.08
		4-5	15.00	327.74	154.85	146.59	146.31	280.00	181.15	1545.68	15.00	16.00	11.14	1545.68	0.14
		4-6	18.00	306.57	163.03	151.21	150.97	240.00	155.36	1544.80	18.00	14.00	12.01	1544.80	0.15
		4-7	21.00	340.09	158.71	150.62	150.34	280.00	189.47	1477.81	21.00	30.00	11.52	1477.81	0.14
										1352.58	23.00	0.00	2.31	1477.81	0.03
6.14	in/hr	avg								1352.58			**Total Solids Lost:**		**0.70**
31-Jul-12		6-1	3.00	322.30	157.71	150.92	150.83	90.00	171.38	525.15	3.00	9.00	15.46	525.15	0.07
		6-2	6.00	322.30	157.50	149.66	149.27	390.00	172.64	2259.04	6.00	7.00	23.63	2259.04	0.45
		6-3	9.00	319.85	170.44	149.49	148.94	550.00	170.36	3228.46	9.00	9.00	22.56	3228.46	0.61
		6-4	12.00	336.63	156.48	148.01	147.63	380.00	188.62	2014.63	12.00	7.00	23.63	2014.63	0.40
		6-5	15.00	326.72	159.98	151.21	150.91	300.00	175.51	1709.30	15.00	5.00	30.14	1709.30	0.43
		6-6	18.00	326.69	173.74	151.38	151.17	210.00	175.31	1197.88	18.00	5.00	36.00	1197.88	0.36
		6-7	21.00	342.32	169.34	#REF!	8/23/2012	#REF!		#REF!	21.00	18.00	29.21	#REF!	#REF!
									AVG =	**#REF!**	30.00	0.00	6.00	#REF!	#REF!
										#REF!			**Total Solids Lost:**		**#REF!**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.05	in/hr	avg													
31-Jul-12		2-1	3.00	213.27	149.13	149.13	149.13	0.00	64.14	0.00	3.00	514.82	0.33	0.00	0.00
		2-2	6.00	337.92	161.19	151.07	150.82	250.00	186.85	1337.97	6.00	499.67	0.37	1337.97	0.00
		2-3	9.00	339.82	160.54	150.26	149.12	1140.00	189.56	6013.93	9.00	317.97	0.54	6013.93	0.03
		2-4	12.00	325.10	160.24	150.24	149.24	1000.00	174.86	5718.86	12.00	363.40	0.43	5718.86	0.02
		2-5	15.00	338.81	155.21	150.71	149.95	760.00	188.10	4040.40	15.00	302.83	0.52	4040.40	0.02
		2-6	18.00	326.80	158.40	151.91	151.04	870.00	174.89	4974.56	18.00	257.41	0.47	4974.56	0.02
		2-7	21.00	206.95	153.83	151.10	150.84	260.00	55.85	4655.33	21.00	333.12	0.78	4655.33	0.03
										3820.15	21.00	0.00	0.13	4655.33	0.01
3.96	in/hr	avg								3820.15			**Total Solids Lost:**		**0.12**
31-Jul-12		4-1	3.00	350.80	148.61	150.13	149.41	720.00	200.67	3587.98	3.00	136.27	1.56	3587.98	0.05
		4-2	6.00	298.12	159.04	151.54	151.37	170.00	146.58	1159.78	6.00	40.00	3.17	1159.78	0.03
		4-3	9.00	317.69	156.76	148.90	148.57	330.00	168.79	1955.09	9.00	26.00	5.73	1955.09	0.09
		4-4	12.00	310.42	158.15	149.12	148.64	480.00	161.30	2975.82	12.00	16.00	9.29	2975.82	0.23
		4-5	15.00	317.04	154.27	147.68	147.44	240.00	169.36	1417.10	15.00	15.00	11.62	1417.10	0.14
		4-6	18.00	349.74	156.10	150.67	150.43	240.00	199.07	1205.61	18.00	14.00	12.42	1205.61	0.12
		4-7	21.00	350.52	157.16	150.38	149.97	410.00	200.14	2048.57	21.00	33.00	11.12	2048.57	0.19
										2049.99	24.00	0.00	2.14	2048.57	0.04
6.16	in/hr	avg								2049.99			**Total Solids Lost:**		**0.89**
31-Jul-12		6-1	3.00	348.31	157.43	150.05	149.55	500.00	198.26	2521.94	3.00	16.00	10.51	2521.94	0.22
		6-2	6.00	350.11	159.24	151.26	150.73	530.00	198.85	2665.33	6.00	9.00	12.97	2665.33	0.29
		6-3	9.00	340.49	154.64	148.47	147.97	500.00	192.02	2603.90	9.00	6.00	24.29	2603.90	0.53
		6-4	12.00	345.61	155.89	149.22	148.71	510.00	196.39	2596.87	12.00	5.00	32.91	2596.87	0.71
		6-5	15.00	357.87	148.63	149.21	148.63	580.00	208.66	2779.64	15.00	5.00	36.00	2779.64	0.83
		6-6	18.00	353.97	158.81	149.13	148.53	600.00	204.84	2929.12	18.00	5.00	36.00	2929.12	0.88
		6-7	21.00	365.54	156.45	151.58	150.94	640.00	213.96	2991.21	21.00	28.00	16.79	2991.21	0.42
										2726.86	30.00	0.00	2.73	2991.21	0.07
										2726.86			**Total Solids Lost:**		**3.95**

27-Jul-12
Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.09 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	818	0.15	0.15	0.15	
2-2	2.00	681	0.08	0.08	0.23	
2-3	3.00	606	0.09	0.09	0.32	
2-4	4.00	606	0.10	0.10	0.42	
2-5	5.00	606	0.10	0.10	0.52	
2-6	6.00	606	0.10	0.10	0.62	
2-7	7.00	606	0.10	0.10	0.72	
2-8	8.00	606	0.10	0.10	0.82	
2-9	9.00	530	0.11	0.11	0.92	
2-10	10.00	500	0.12	0.12	1.04	
2-11	11.00	454	0.13	0.13	1.16	
2-12	12.00	379	0.14	0.14	1.31	
2-13	13.00	288	0.18	0.18	1.49	
2-14	14.00	197	0.25	0.25	1.74	
2-15	15.00	167	0.33	0.33	2.07	
2-16	16.00	136	0.40	0.40	2.46	
2-17	17.00	106	0.50	0.50	2.96	
2-18	18.00	76	0.66	0.66	3.62	
2-19	19.00	61	0.88	0.88	4.50	
2-20	20.00	76	0.88	0.88	5.38	
2-21	21.00	303	0.32	0.32	5.70	
2-end	22.00	0	0.40	0.40	6.09	
					6.09	**Total Collected Runoff (approx)**
3.98 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	50	2.40	2.40	2.40	
4-2	2	50	1.20	1.20	3.60	
4-3	3	45	1.26	1.26	4.86	
4-4	4	41	1.40	1.40	6.26	
4-5	5	35	1.58	1.58	7.84	
4-6	6	31	1.82	1.82	9.65	
4-7	7	27	2.07	2.07	11.72	
4-8	8	25	2.31	2.31	14.03	
4-9	9	23	2.50	2.50	16.53	
4-10	10	18	2.93	2.93	19.46	
4-11	11	16	3.53	3.53	22.99	
4-12	12	19	3.43	3.43	26.41	
4-13	13	17	3.33	3.33	29.75	
4-14	14	16	3.64	3.64	33.38	
4-15	15	15	3.87	3.87	37.25	
4-16	16	16	3.87	3.87	41.12	
4-17	17	14	4.00	4.00	45.12	
4-18	18	14	4.29	4.29	49.41	
4-19	19	14	4.29	4.29	53.69	
4-20	20	21	3.43	3.43	57.12	
4-21	21	53	1.62	1.62	58.74	
4-end	23.00	0	1.43	1.43	60.17	
					60.17	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	22	5.45	5.45	5.45	
6-2	2	17	3.08	3.08	8.53	
6-3	3	9		8/23/2012 (Rev	#REF!	
6-4	4	8		#REF!		
6-5	5	8	7.50	7.50	#REF!	
6-6	6	7	8.00	8.00	#REF!	
6-7	7	8	8.00	8.00	#REF!	
6-8	8	7	8.00	8.00	#REF!	
6-9	9	8	8.00	8.00	#REF!	
6-10	10	7	8.00	8.00	#REF!	
6-11	11	6	9.23	9.23	#REF!	
6-12	12	6	10.00	10.00	#REF!	
6-13	13	6	10.00	10.00	#REF!	
6-14	14	6	10.00	10.00	#REF!	
6-15	15	6	10.00	10.00	#REF!	
6-16	16	6	10.00	10.00	#REF!	
6-17	17	6	10.00	10.00	#REF!	
6-18	18	6	10.00	10.00	#REF!	
6-19	19	6	10.00	10.00	#REF!	
6-20	20	6	10.00	10.00	#REF!	
6-21	21	13	6.32	6.32	#REF!	
6-end	30.00	0	5.00	5.00	#REF!	
					#REF!	**Total Collected Runoff (approx)**

31-Jul-12
Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.13 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	363	0.33	0.33	0.33	
2-2	2.00	333	0.17	0.17	0.50	
2-3	3.00	303	0.19	0.19	0.69	
2-4	4.00	257	0.21	0.21	0.91	
2-5	5.00	257	0.23	0.23	1.14	
2-6	6.00	242	0.24	0.24	1.38	
2-7	7.00	227	0.26	0.26	1.63	
2-8	8.00	242	0.26	0.26	1.89	
2-9	9.00	227	0.26	0.26	2.15	
2-10	10.00	212	0.27	0.27	2.42	
2-11	11.00	212	0.28	0.28	2.70	
2-12	12.00	197	0.29	0.29	3.00	
2-13	13.00	197	0.30	0.30	3.30	
2-14	14.00	212	0.29	0.29	3.59	
2-15	15.00	167	0.32	0.32	3.91	
2-16	16.00	182	0.34	0.34	4.26	
2-17	17.00	167	0.34	0.34	4.60	
2-18	18.00	167	0.36	0.36	4.96	
2-19	19.00	151	0.38	0.38	5.34	
2-20	20.00	136	0.42	0.42	5.75	
2-21	21.00	333	0.26	0.26	6.01	
2-end	23.00	0	0.22	0.22	6.23	
					6.23	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	333	0.36	0.36	0.36	
4-2	2	182	0.23	0.23	0.59	
4-3	3	167	0.34	0.34	0.94	
4-4	4	42	0.58	0.58	1.51	
4-5	5	40	1.46	1.46	2.98	
4-6	6	24	1.87	1.87	4.85	
4-7	7	17	2.93	2.93	7.78	
4-8	8	17	3.53	3.53	11.31	
4-9	9	18	3.43	3.43	14.74	
4-10	10	17	3.43	3.43	18.16	
4-11	11	18	3.43	3.43	21.59	
4-12	12	17	3.43	3.43	25.02	
4-13	13	16	3.64	3.64	28.66	
4-14	14	16	3.75	3.75	32.41	
4-15	15	16	3.75	3.75	36.15	
4-16	16	15	3.87	3.87	40.03	
4-17	17	15	4.00	4.00	44.02	
4-18	18	14	4.14	4.14	48.16	
4-19	19	14	4.29	4.29	52.45	
4-20	20	13	4.44	4.44	56.89	
4-21	21	30	2.79	2.79	59.68	
4-end	23	0	2.31	2.31	61.99	
					61.99	**Total Collected Runoff (approx)**
6.14 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	20	6.00	6.00	6.00	
6-2	2	12	3.75	3.75	9.75	
6-3	3	9	5.71	5.71	15.46	
6-4	4	8	7.06	7.06	22.52	
6-5	5	7	8.00	8.00	30.52	
6-6	6	7	8.57	8.57	39.09	
6-7	7	8	8.00	8.00	47.09	
6-8	8	8	7.50	7.50	54.59	
6-9	9	9	7.06	7.06	61.65	
6-10	10	8	7.06	7.06	68.70	
6-11	11	7	8.00	8.00	76.70	
6-12	12	7	8.57	8.57	85.27	
6-13	13	6	9.23	9.23	94.50	
6-14	14	6	10.00	10.00	104.50	
6-15	15	5	10.91	10.91	115.41	
6-16	16	5	12.00	12.00	127.41	
6-17	17	5	12.00	12.00	139.41	
6-18	18	5	12.00	12.00	151.41	
6-19	19	5	12.00	12.00	163.41	
6-20	20	5	12.00	12.00	175.40	
6-21	21	18	5.22	5.22	180.62	
6-end	30	0	6.00	6.00	186.62	
					186.62	**Total Collected Runoff (approx)**

31-Jul-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.05 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	908	0.13	0.13	0.13	
2-2	2.00	545	0.08	0.08	0.21	
2-3	3.00	515	0.11	0.11	0.33	
2-4	4.00	515	0.12	0.12	0.44	
2-5	5.00	439	0.13	0.13	0.57	
2-6	6.00	500	0.13	0.13	0.70	
2-7	7.00	333	0.14	0.14	0.84	
2-8	8.00	288	0.19	0.19	1.04	
2-9	9.00	318	0.20	0.20	1.23	
2-10	10.00	469	0.15	0.15	1.39	
2-11	11.00	439	0.13	0.13	1.52	
2-12	12.00	363	0.15	0.15	1.67	
2-13	13.00	333	0.17	0.17	1.84	
2-14	14.00	379	0.17	0.17	2.01	
2-15	15.00	303	0.18	0.18	2.18	
2-16	16.00	485	0.15	0.15	2.34	
2-17	17.00	394	0.14	0.14	2.47	
2-18	18.00	257	0.18	0.18	2.66	
2-19	19.00	182	0.27	0.27	2.93	
2-20	20.00	227	0.29	0.29	3.22	
2-21	21.00	333	0.21	0.21	3.44	
2-end	21.00	0	0.13	0.13	3.57	
					3.57	**Total Collected Runoff (approx)**
3.96 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	167	0.72	0.72	0.72	
4-2	2	136	0.40	0.40	1.12	
4-3	3	136	0.44	0.44	1.56	
4-4	4	60	0.61	0.61	2.17	
4-5	5	45	1.14	1.14	3.31	
4-6	6	40	1.41	1.41	4.72	
4-7	7	35	1.60	1.60	6.32	
4-8	8	28	1.90	1.90	8.23	
4-9	9	26	2.22	2.22	10.45	
4-10	10	20	2.61	2.61	13.06	
4-11	11	18	3.16	3.16	16.22	
4-12	12	16	3.53	3.53	19.74	
4-13	13	16	3.75	3.75	23.49	
4-14	14	15	3.87	3.87	27.36	
4-15	15	15	4.00	4.00	31.36	
4-16	16	15	4.00	4.00	35.36	
4-17	17	14	4.14	4.14	39.50	
4-18	18	14	4.29	4.29	43.79	
4-19	19	14	4.29	4.29	48.07	
4-20	20	14	4.29	4.29	52.36	
4-21	21	33	2.55	2.55	54.91	
4-end	24	0	2.14	2.14	57.05	
					57.05	**Total Collected Runoff (approx)**
6.16 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	25	4.80	4.80	4.80	
6-2	2	22	2.55	2.55	7.35	
6-3	3	16	3.16	3.16	10.51	
6-4	4	16	3.75	3.75	14.26	
6-5	5	14	4.00	4.00	18.26	
6-6	6	9	5.22	5.22	23.48	
6-7	7	8	7.06	7.06	30.53	
6-8	8	7	8.00	8.00	38.53	
6-9	9	6	9.23	9.23	47.76	
6-10	10	6	10.00	10.00	57.76	
6-11	11	5	10.91	10.91	68.67	
6-12	12	5	12.00	12.00	80.67	
6-13	13	5	12.00	12.00	92.67	
6-14	14	5	12.00	12.00	104.67	
6-15	15	5	12.00	12.00	116.66	
6-16	16	5	12.00	12.00	128.66	
6-17	17	5	12.00	12.00	140.66	
6-18	18	5	12.00	12.00	152.66	
6-19	19	10	8.00	8.00	160.66	
6-20	20	11	5.71	5.71	166.37	
6-21	21	28	3.08	3.08	169.45	
6-end	30	0	2.73	2.73	172.18	
					172.18	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	27-Jul-12	31-Jul-12	31-Jul-12
Avg Moisture Content:	**20.57%**	**21.82%**	**21.85%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	255.16	251.27	242.85
Wt. Of cup + dry soil, g	248.66	244.98	238.45
Wt. Of cup, g	216.91	217.07	217.07
Wt. Of dry soil, g	31.75	27.91	21.38
Wt. Of water, g	6.5	6.29	4.4
Water Content, w%	20.5%	22.5%	20.6%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	246.81	246.14	241.36
Wt. Of cup + dry soil, g	242.03	240.96	236.69
Wt. Of cup, g	216.97	216.97	216.97
Wt. Of dry soil, g	25.06	23.99	19.72
Wt. Of water, g	4.78	5.18	4.67
Water Content, w%	19.1%	21.6%	23.7%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	245.02	246.04	246.25
Wt. Of cup + dry soil, g	239.95	240.95	241.13
Wt. Of cup, g	217.08	217.08	217.08
Wt. Of dry soil, g	22.87	23.87	24.05
Wt. Of water, g	5.07	5.09	5.12
Water Content, w%	22.2%	21.3%	21.3%

Soil Loss Data

Slope No.	1	2	3
Test Date:	27-Jul-12	31-Jul-12	31-Jul-12
Total Soil Loss	**2.77**	**2.90**	**3.59**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		81.7	90.8	63.6
Sub-Sample	Wt. Of cup + wet soil, g	81.7	90.8	63.6
	Wt. Of cup + dry soil, g	81.7	90.8	63.6
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	81.7	90.8	63.6
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.180	0.200	0.140

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		450.4	363.2	499.4
Sub-Sample	Wt. Of cup + wet soil, g	450.4	363.2	499.4
	Wt. Of cup + dry soil, g	450.4	363.2	499.4
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	450.4	363.2	499.4
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.992	0.800	1.100

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		726.4	862.6	1066.9
Sub-Sample	Wt. Of cup + wet soil, g	726.4	862.6	1066.9
	Wt. Of cup + dry soil, g	726.4	862.6	1066.9
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	726.4	862.6	1066.9
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		1.600	1.900	2.350

TYPICAL TESTING PICTURES



Test Slope Prepared and Straw Bales Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 2-Aug-12 | Start Rain: 8:45 AM | End Rain: 9:05 AM

Sampling interval: 0:03 | End Runoff: 9:07 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: Straw | Descr:. Type B - Straw Bales

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

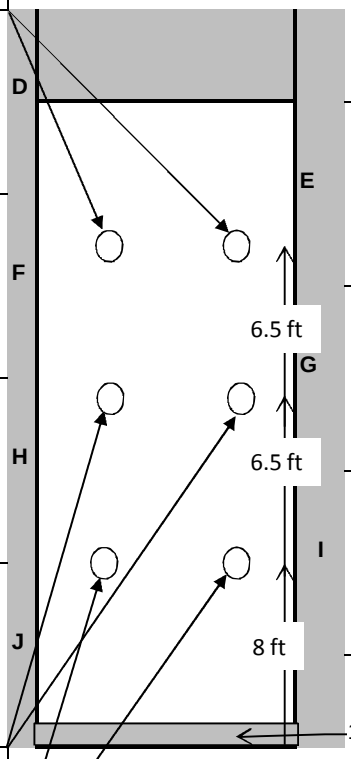
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 24.2%

d = 17 19 mm

i = 2.01 2.24 in/hr



x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
x						X
x	P = 9 psi	J				x
X						
x					1 ft Install Zone	

d = 18 17 mm

i = 2.13 2.01 in/hr

w_{c2} = 21.5%

x x **X** x

P = 9 psi

Temp. 77 deg

Hum. 77 %

d = 17 19 mm

i = 2.01 2.24 in/hr

w_{c3} = 22.8%

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.11** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:48	X	X
8:51	X	X
8:54	X	X
8:57	X	X
9:00	X	X
9:03	X	X
9:06	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	25	26
2	250	23
3	250	24
4	250	29
5	250	27
6	250	25
7	250	25
8	250	22
9	250	22
10	250	22
11	250	20
12	250	22
13	250	16
14	250	17
15	250	17
16	250	17
17	250	15
18	250	14
19	250	7
20	250	4
21	250	22
22	250	0

NOTES:
Wind: 0 mph. Direction: E
Approx 5 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 2-Aug-12 | Start Rain: 9:10 AM | End Rain: 9:30 AM

Sampling interval: 0:03 | End Runoff: 9:33 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: Straw | Descr:. Type B - Straw Bales

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

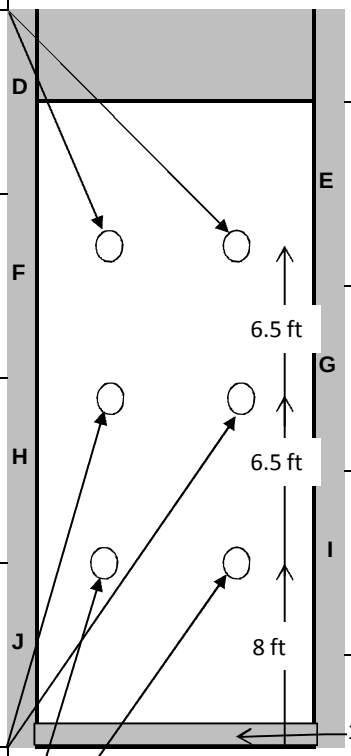
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 24.2%

d = 34 30 mm

i = 4.02 3.54 in/hr



x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
x						X
x	P = 9 psi	J				x
X						
x						

d = 34 33 mm

i = 4.02 3.90 in/hr

w_{c2} = 21.5%

x x **X** x

P = 9 psi

Temp. 78 deg

Hum. 76 %

d = 35 34 mm

i = 4.13 4.02 in/hr

w_{c3} = 22.8%

Average Depth: 33 mm

Avg Rainfall Intensity: 3.94 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:13	X	X
9:16	X	X
9:19	X	X
9:22	X	X
9:25	X	X
9:28	X	X
9:31	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	7
2	3785	22
3	3785	20
4	3785	18
5	3785	18
6	3785	17
7	3785	17
8	3785	16
9	3785	16
10	3785	15
11	3785	15
12	3785	15
13	3785	15
14	3785	15
15	3785	14
16	3785	12
17	3785	12
18	3785	12
19	3785	12
20	3785	12
21	3785	26
23	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 80 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 2-Aug-12 | Start Rain: 9:37 AM | End Rain: 9:57 AM

Sampling interval: 0:03 | End Runoff: 10:01 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: Straw | Descr:. Type B - Straw Bales

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 24.2%

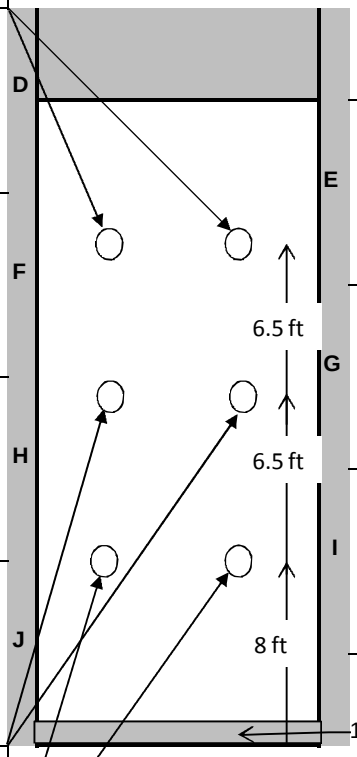
d =	53	54	mm
i =	6.26	6.38	in/hr

x
X P = 9 psi **D**
x
x

x
x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
x P = 9 psi **J**
X
x



x
x
E P = 9 psi **X**
x
x

x
x
G P = 9 psi x
X
x

x
x
I P = 9 psi x
X
x

d =	52	52	mm
i =	6.14	6.14	in/hr

w_{c2} = 21.5%

d =	51	50	51
i =	6.02	5.91	in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 80 deg

Hum. 70 %

Average Depth: **52** **mm**

Avg Rainfall Intensity: **6.14** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:40	X	X
9:43	X	X
9:46	X	X
9:49	X	X
9:52	X	X
9:55	X	X
9:58	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	14
2	3785	8
3	3785	8
4	3785	8
5	3785	6
6	3785	7
7	3785	7
8	3785	8
9	3785	7
10	3785	8
11	3785	8
12	3785	8
13	3785	8
14	3785	8
15	3785	7
16	3785	7
17	3785	7
18	3785	7
19	3785	6
20	3785	6
21	3785	15
24	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 170 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date: 2-Aug-12 | Start Rain: 7:07 AM | End Rain: 7:27 AM

Sampling interval: 0:03 | End Runoff: 7:29 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: Straw | Descr:. Type B - Straw Bales

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

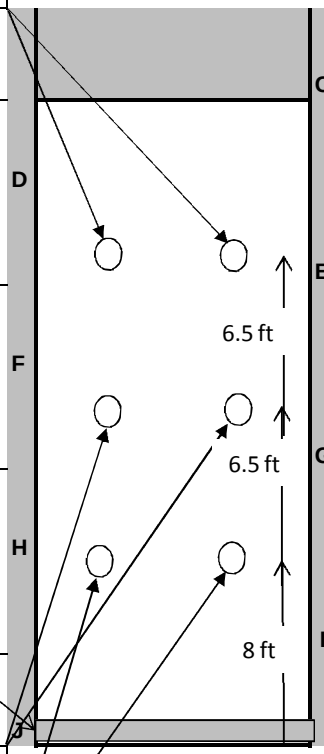
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 24.2%

d = 20 17 mm

i = 2.36 2.01 in/hr



x						x
			C	P = 9 psi		X
x						x
X	P = 9 psi		D			x
x						x
x			E	P = 9 psi		X
x						x
X	P = 9 psi		F			x
x						x
x			G	P = 9 psi		x
x						X
x	P = 9 psi		H			x
X						x
x			I	P = 9 psi		x
						X
			J			x

d = 16 18 mm

i = 1.89 2.13 in/hr

w_{c2} = 21.5%

d = 17 17 mm

i = 2.01 2.01 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 69 deg

Hum. 92 %

Average Depth: 18 mm

Avg Rainfall Intensity: 2.07 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:10	X	X
7:13	X	X
7:16	X	X
7:19	X	X
7:22	X	X
7:25	X	X
7:28	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	45
2	250	39
3	250	34
4	250	38
5	250	37
6	250	35
7	250	25
8	250	24
9	250	24
10	250	25
11	250	24
12	250	24
13	250	21
14	250	19
15	250	19
16	250	14
17	250	18
18	250	16
19	250	16
20	250	20
21	250	35
22	250	0

NOTES:

Wind: 0 mph. Direction: W

Approx 3 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 2-Aug-12 | Start Rain: 7:32 AM | End Rain: 7:52 AM

Sampling interval: 0:03 | End Runoff: 7:54 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: Straw | Descr:. Type B - Straw Bales

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

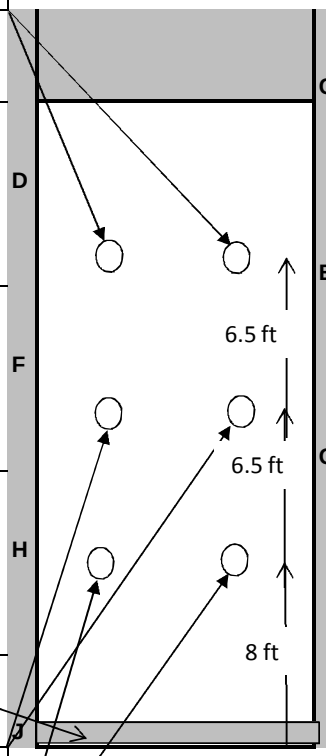
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 24.2%

d = 32 34 mm

i = 3.78 4.02 in/hr



				C	P = 9 psi	X
x				D	P = 9 psi	X
x				E	P = 9 psi	X
x				F	P = 9 psi	X
x				G	P = 9 psi	x
x				H	P = 9 psi	x
x				I	P = 9 psi	x
				J		x

d = 36 36 mm

i = 4.25 4.25 in/hr

w_{c2} = 21.5%

d = 34 35 mm

i = 4.02 4.13 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 71 deg

Hum. 91 %

Average Depth: 35 mm

Avg Rainfall Intensity: 4.07 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:35	X	X
7:38	X	X
7:41	X	X
7:44	X	X
7:47	X	X
7:50	X	X
7:53	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	21
2	3785	19
3	3785	18
4	3785	16
5	3785	16
6	3785	16
7	3785	15
8	3785	14
9	3785	14
10	3785	14
11	3785	14
12	3785	14
13	3785	13
14	3785	13
15	3785	12
16	3785	12
17	3785	13
18	3785	15
19	3785	17
20	3785	13
21	3785	35
22	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 80 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date: 2-Aug-12 | Start Rain: 7:58 AM | End Rain: 8:18 AM

Sampling interval: 0:03 | End Runoff: 8:22 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: Straw | Descr:. Type B - Straw Bales

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

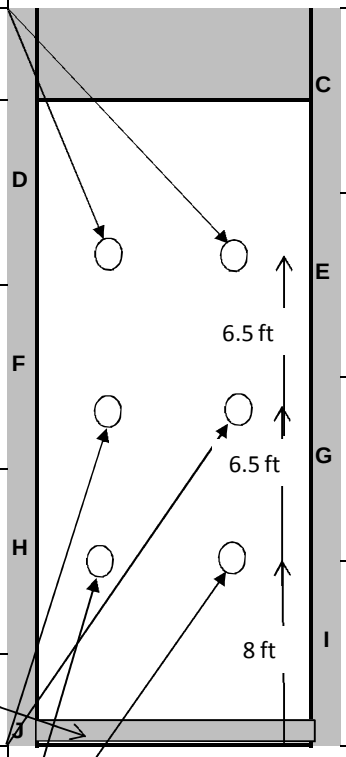
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 24.2%

d = 52 51 mm

i = 6.14 6.02 in/hr



				C	P = 9 psi	X
x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
						X
				J		x

d = 52 53 mm

i = 6.14 6.26 in/hr

w_{c2} = 21.5%

d = 50 53 mm

i = 5.91 6.26 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 71 deg

Hum. 91 %

Average Depth: **52** **mm**

Avg Rainfall Intensity: **6.12** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:01	X	X
8:04	X	X
8:07	X	X
8:10	X	X
8:13	X	X
8:16	X	X
8:19	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	29
2	3785	12
3	3785	10
4	3785	10
5	3785	9
6	3785	9
7	3785	8
8	3785	8
9	3785	8
10	3785	7
11	3785	7
12	3785	7
13	3785	7
14	3785	7
15	3785	6
16	3785	6
17	3785	6
18	3785	6
19	3785	6
20	3785	6
21	3785	15
24	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 170 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date:	8-Aug-12	Start Rain:	7:07 AM	End Rain:	7:27 AM
		Sampling interval:	0:03	End Runoff:	7:28 AM
		Rain Time (min):	20.00	Test Time (min):	21.00
Product:	Straw	Descr:.	Type B - Straw Bales		
Lot #:		Posts:	Wood Stakes	Spacing:	1.5-ft

TOP OF SLOPE

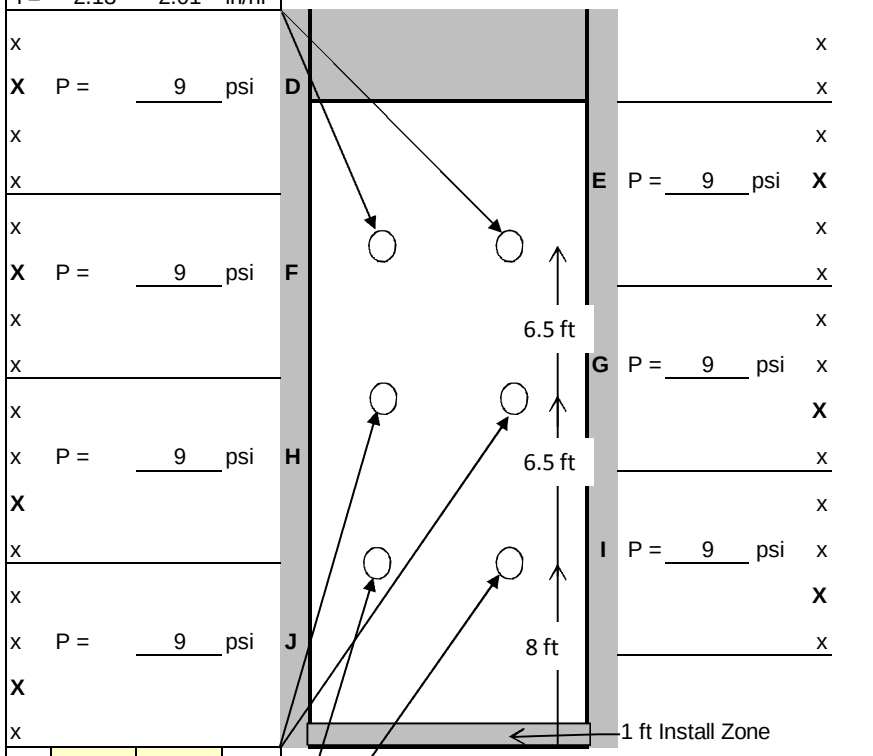
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 24.2%

d = 18 17 mm

i = 2.13 2.01 in/hr



d = 18 17 mm

i = 2.13 2.01 in/hr

w_{c2} = 19.1%

d = 17 17 mm

i = 2.01 2.01 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 71 deg

Hum. 98 %

Average Depth: 17 mm

Avg Rainfall Intensity: 2.05 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:10	X	X
7:13	X	X
7:16	X	X
7:19	X	X
7:22	X	X
7:25	X	X
7:28	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	60
2	250	60
3	250	60
4	250	60
5	250	60
6	250	60
7	250	60
8	250	60
9	250	60
10	250	60
11	250	60
12	250	50
13	250	50
14	250	16
15	250	4
16	250	3
17	250	3
18	250	3
19	250	3
20	250	3
21	250	15
21	250	0

NOTES: Test on Slope G2

Wind: 0 mph. Direction: SE

Approx 10 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date:	8-Aug-12	Start Rain:	7:32 AM	End Rain:	7:52 AM
		Sampling interval:	0:03	End Runoff:	7:54 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	Straw	Descr:.	Type B - Straw Bales		
Lot #:		Posts:	Wood Stakes	Spacing:	1.5-ft

TOP OF SLOPE

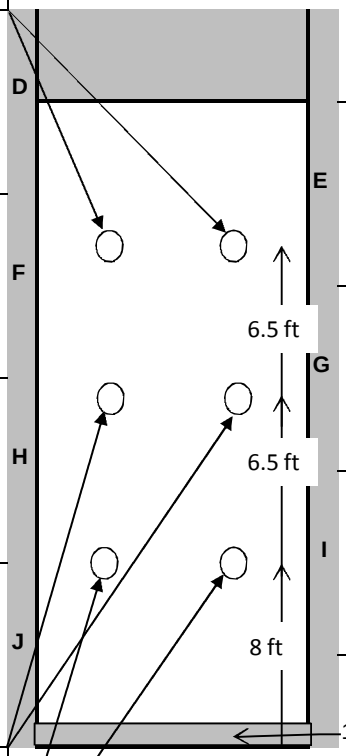
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 24.2%

d = 36 34 mm

i = 4.25 4.02 in/hr



x								x
X	P =	9	psi	D				x
x								x
x					E	P =	9 psi	X
x								x
X	P =	9	psi	F				x
x								x
x					G	P =	9 psi	x
x								X
x	P =	9	psi	H				x
X								x
x					I	P =	9 psi	x
x								X
x	P =	9	psi	J				x
X								
x								

x x **X** x

P = 9 psi

Temp. 72 deg

Hum. 94 %

d = 34 34 mm

i = 4.02 4.02 in/hr

w_{c2} = 19.1%

d = 33 34 mm

i = 3.90 4.02 in/hr

w_{c3} = 22.8%

Average Depth: 34 mm

Avg Rainfall Intensity: 4.04 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:35	X	X
7:38	X	X
7:41	X	X
7:44	X	X
7:47	X	X
7:50	X	X
7:53	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	9
2	3785	16
3	3785	15
4	3785	14
5	3785	14
6	3785	14
7	3785	14
8	3785	14
9	3785	13
10	3785	13
11	3785	13
12	3785	14
13	3785	14
14	3785	14
15	3785	13
16	3785	14
17	3785	13
18	3785	13
19	3785	12
20	3785	12
21	3785	25
22	3785	0

NOTES:
Wind: 0 mph. Direction: SE
Approx 90 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date:	8-Aug-12	Start Rain:	7:56 AM	End Rain:	8:16 AM
		Sampling interval:	0:03	End Runoff:	8:20 AM
		Rain Time (min):	20.00	Test Time (min):	24.00
Product:	Straw	Descr:.	Type B - Straw Bales		
Lot #:		Posts:	Wood Stakes	Spacing:	1.5-ft

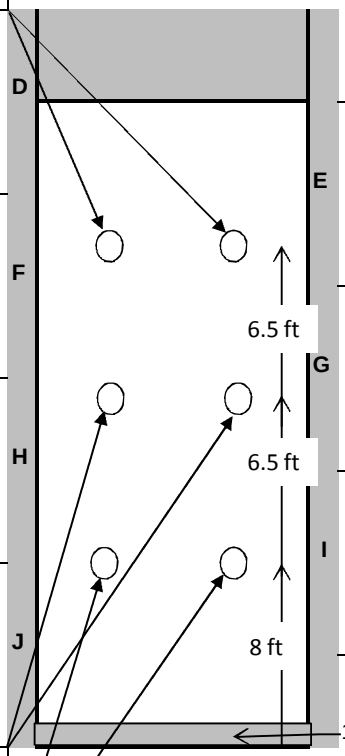
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 24.2%

d =	53	51	mm
i =	6.26	6.02	in/hr



x							x
X	P =	9	psi	D			x
x							x
x					E	P = 9 psi	X
x							x
X	P =	9	psi	F			x
x							x
x					G	P = 9 psi	x
x							X
x	P =	9	psi	H			x
X							x
x					I	P = 9 psi	x
x							X
x	P =	9	psi	J			x
X							
x							

d =	50	48	mm
i =	5.91	5.67	in/hr

x x **X** x

P = 9 psi

Temp. 72 deg

Hum. 94 %

w_{c2} = 19.1%

d =	54	50	mm
i =	6.38	5.91	in/hr

w_{c3} = 22.8%

Average Depth: 51 mm

Avg Rainfall Intensity: 6.02 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:59	X	X
8:02	X	X
8:05	X	X
8:08	X	X
8:11	X	X
8:14	X	X
8:17	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	11
2	3785	9
3	3785	9
4	3785	7
5	3785	7
6	3785	8
7	3785	7
8	3785	7
9	3785	7
10	3785	7
11	3785	7
12	3785	7
13	3785	7
14	3785	7
15	3785	7
16	3785	8
17	3785	7
18	3785	7
19	3785	7
20	3785	7
21	3785	30
24	3785	0

NOTES:
Wind: 0 mph. Direction: SE
Approx 175 gallons collected.

Type B - Straw Bales

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	72.3
2	20	66.8
3	20	84.3

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	837	2-1	3.00	1206	2-1	3.00	1116
2-2	6.00	491	2-2	6.00	1056	2-2	6.00	734
2-3	9.00	367	2-3	9.00	903	2-3	9.00	606
2-4	12.00	309	2-4	12.00	741	2-4	12.00	518
2-5	15.00	298	2-5	15.00	681	2-5	15.00	332
2-6	18.00	493	2-6	18.00	601	2-6	18.00	1847
2-7	21.00	1193	2-7	21.00	813	2-7	21.00	1452
avg		**570**	avg		**857**	avg		**944**
4-1	3.00	974	4-1	2.00	1418	4-1	2.00	3071
4-2	6.00	2247	4-2	4.00	611	4-2	4.00	4799
4-3	9.00	2488	4-3	6.00	4410	4-3	6.00	6334
4-4	12.00	2455	4-4	8.00	3884	4-4	8.00	3896
4-5	15.00	2759	4-5	10.00	3790	4-5	10.00	8856
4-6	18.00	3262	4-6	12.00	3451	4-6	12.00	9999
4-7	21.00	2958	4-7	21.00	2525	4-7	21.00	3671
avg		**2449**	avg		**2870**	avg		**5804**
6-1	3.00	5921	6-1	3.00	9999	6-1	3.00	9999
6-2	6.00	9999	6-2	6.00	6162	6-2	6.00	5837
6-3	9.00	5885	6-3	9.00	5994	6-3	9.00	6280
6-4	12.00	9999	6-4	12.00	9999	6-4	12.00	9999
6-5	15.00	9999	6-5	15.00	8287	6-5	15.00	9999
6-6	18.00	8533	6-6	18.00	8846	6-6	18.00	4817
6-7	21.00	9999	6-7	21.00	9999	6-7	21.00	3118
avg		**8619**	avg		**8469**	avg		**7150**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.11	in/hr	avg														
2-Aug-12		2-1	3.00	340.18	161.75	151.75	151.59	160.00	188.43	0.19	849.12	3.00	363.40	0.23	849.12	0.00
		2-2	6.00	337.10	157.22	151.03	150.93	100.00	186.07	0.19	537.43	6.00	378.54	0.44	537.43	0.00
		2-3	9.00	247.81	157.51	150.99	150.99	0.00	96.82	0.10	0.00	9.00	333.12	0.51	0.00	0.00
		2-4	12.00	318.20	157.52	149.29	149.28	10.00	168.91	0.17	59.20	12.00	333.12	0.56	59.20	0.00
		2-5	15.00	342.60	156.46	150.75	150.73	20.00	191.85	0.19	104.25	15.00	257.41	0.68	104.25	0.00
		2-6	18.00	261.49	154.64	150.17	150.12	50.00	111.32	0.11	449.16	18.00	211.98	0.75	449.16	0.00
		2-7	21.00	316.56	163.01	150.81	150.11	700.00	165.75	0.17	4223.23	21.00	333.12	1.40	4223.23	0.05
										AVG =	**888.91**	22.00	0	0.50	4223.23	0.02
3.94	in/hr	avg									888.91			**Total Solids Lost:**		**0.07**
2-Aug-12		4-1	3.00	281.58	160.51	149.39	149.31	80.00	132.19	0.13	605.19	3.00	20.00	4.93	605.19	0.02
		4-2	6.00	324.31	170.58	152.22	151.34	880.00	172.09	0.17	5113.60	6.00	17.00	9.92	5113.60	0.42
		4-3	9.00	295.11	167.49	151.13	150.15	980.00	143.98	0.14	6806.50	9.00	16.00	10.91	6806.50	0.62
		4-4	12.00	311.96	159.49	150.75	150.75	0.00	161.21	0.16	0.00	12.00	15.00	11.87	0.00	0.00
		4-5	15.00	323.24	160.92	149.69	149.48	210.00	173.55	0.17	1210.03	15.00	14.00	12.14	1210.03	0.12
		4-6	18.00	297.60	155.09	150.46	149.48	980.00	147.14	0.15	6660.32	18.00	12.00	14.61	6660.32	0.81
		4-7	21.00	330.36	153.81	148.28	148.08	200.00	182.08	0.18	1098.42	21.00	26.00	13.16	1098.42	0.12
										AVG =	**3070.58**	23.00	0.00	2.50	1098.42	0.02
6.14	in/hr	avg									3070.58			**Total Solids Lost:**		**2.15**
2-Aug-12		6-1	3.00	323.49	161.31	150.15	149.58	570.00	173.34	0.17	3288.34	3.00	8.00	21.52	3288.34	0.59
		6-2	6.00	360.05	158.49	147.84	147.19	650.00	212.21	0.21	3063.00	6.00	7.00	25.30	3063.00	0.65
		6-3	9.00	384.50	158.40	149.93	148.93	1000.00	234.57	0.23	4263.12	9.00	7.00	24.57	4263.12	0.87
		6-4	12.00	298.59	160.15	151.24	150.54	700.00	147.35	0.15	4750.59	12.00	8.00	23.00	4750.59	0.91
		6-5	15.00	281.49	162.80	151.08	150.42	660.00	130.41	0.13	5060.96	15.00	7.00	23.00	5060.96	0.97
		6-6	18.00	341.36	163.72	151.09	149.94	1150.00	190.27	0.19	6044.04	18.00	7.00	25.71	6044.04	1.30
		6-7	21.00	370.06	164.71	151.43	149.96	1470.00	218.63	0.22	6723.69	21.00	15.00	24.94	6723.69	1.40
										AVG =	**4741.96**	24.00	0.00	5.00	6723.69	0.28
											4741.96			**Total Solids Lost:**		**6.97**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.07	in/hr	avg														
2-Aug-12		2-1	3.00	334.22	156.79	150.87	150.68	190.00	183.35	0.18	1036.27	3.00	514.82	0.38	1036.27	0.00
		2-2	6.00	330.84	157.79	150.47	150.26	210.00	180.37	0.18	1164.27	6.00	529.96	0.33	1164.27	0.00
		2-3	9.00	329.52	161.07	150.94	150.75	190.00	178.58	0.18	1063.95	9.00	363.40	0.46	1063.95	0.00
		2-4	12.00	348.66	156.75	151.56	151.44	120.00	197.10	0.20	608.83	12.00	363.40	0.49	608.83	0.00
		2-5	15.00	347.22	156.87	151.55	151.44	110.00	195.67	0.20	562.17	15.00	287.69	0.58	562.17	0.00
		2-6	18.00	248.48	156.09	151.24	151.11	130.00	97.24	0.10	1336.90	18.00	242.27	0.72	1336.90	0.01
		2-7	21.00	193.73	156.61	151.18	151.11	70.00	42.55	0.04	1645.12	21.00	529.96	0.61	1645.12	0.01
										AVG =	**1059.64**	22.00	0.00	0.10	1645.12	0.00
4.07	in/hr	avg									1059.64			**Total Solids Lost:**		**0.03**
2-Aug-12		4-1	3.00	352.78	165.93	152.42	151.54	880.00	200.36	0.20	4392.09	3.00	18.00	3.98	4392.09	0.15
		4-2	6.00	345.40	156.44	150.47	149.87	600.00	194.93	0.19	3078.03	6.00	16.00	11.03	3078.03	0.28
		4-3	9.00	297.48	164.41	152.42	151.91	510.00	145.06	0.15	3515.79	9.00	14.00	12.29	3515.79	0.36
		4-4	12.00	332.93	164.16	152.63	151.91	720.00	180.30	0.18	3993.34	12.00	14.00	12.86	3993.34	0.43
		4-5	15.00	328.78	166.22	151.59	150.88	710.00	177.19	0.18	4007.00	15.00	12.00	13.86	4007.00	0.46
		4-6	18.00	354.10	173.83	152.68	151.84	840.00	201.42	0.20	4170.39	18.00	15.00	14.08	4170.39	0.49
		4-7	21.00	331.92	166.04	151.87	150.97	900.00	180.05	0.18	4998.61	21.00	35.00	10.25	4998.61	0.43
										AVG =	**4022.18**	22.00	0.00	2.31	4998.61	0.10
6.12	in/hr	avg									4022.18			**Total Solids Lost:**		**2.69**
2-Aug-12		6-1	3.00	346.18	172.16	152.28	151.42	860.00	193.90	0.19	4435.28	3.00	10.00	12.52	4435.28	0.46
		6-2	6.00	332.86	178.80	152.31	151.52	790.00	180.55	0.18	4375.52	6.00	9.00	18.98	4375.52	0.69
		6-3	9.00	352.31	176.95	152.49	151.53	960.00	199.82	0.20	4804.32	9.00	8.00	22.06	4804.32	0.88
		6-4	12.00	355.85	183.43	152.38	151.38	1000.00	203.47	0.20	4914.73	12.00	7.00	25.14	4914.73	1.03
		6-5	15.00	344.51	175.04	152.64	151.54	1100.00	191.87	0.19	5733.05	15.00	6.00	26.37	5733.05	1.26
		6-6	18.00	355.23	185.63	152.67	151.35	1320.00	202.56	0.20	6516.59	18.00	6.00	30.00	6516.59	1.63
		6-7	21.00	353.99	164.62	152.31	151.20	1110.00	201.68	0.20	5503.77	21.00	15.00	25.71	5503.77	1.18
										AVG =	**5183.32**	24.00	0.00	5.00	5503.77	0.23
											5183.32			**Total Solids Lost:**		**7.37**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.05	in/hr	avg														
8-Aug-12		2-1	3.00	315.83	153.80	150.17	150.08	90.00	165.66	0.17	543.28	3.00	908.50	0.26	543.28	0.00
		2-2	6.00	306.34	162.47	150.41	150.26	150.00	155.93	0.16	961.97	6.00	908.50	0.20	961.97	0.00
		2-3	9.00	281.28	155.97	150.83	150.75	80.00	130.45	0.13	613.26	9.00	908.50	0.20	613.26	0.00
		2-4	12.00	337.33	158.01	151.53	151.44	90.00	185.80	0.19	484.39	12.00	757.08	0.20	484.39	0.00
		2-5	15.00	369.20	161.04	151.56	151.43	130.00	217.64	0.22	597.32	15.00	60.57	0.60	597.32	0.00
		2-6	18.00	335.14	168.24	151.38	151.11	270.00	183.76	0.18	1469.31	18.00	45.42	3.77	1469.31	0.05
		2-7	21.00	358.22	176.89	151.46	151.21	250.00	206.76	0.21	1209.13	21.00	227.12	3.08	1209.13	0.03
										AVG =	**839.81**	21.00	0.00	0.66	1209.13	0.01
4.04	in/hr	avg									839.81			**Total Solids Lost:**		**0.09**
8-Aug-12		4-1	3.00	344.27	173.31	152.90	152.40	500.00	191.37	0.19	2612.74	3.00	15.00	5.54	2612.74	0.12
		4-2	6.00	331.43	166.58	151.02	150.37	650.00	180.41	0.18	3602.90	6.00	14.00	12.71	3602.90	0.38
		4-3	9.00	335.04	166.72	152.56	151.91	650.00	182.48	0.18	3562.03	9.00	13.00	13.01	3562.03	0.39
		4-4	12.00	312.72	167.07	152.46	151.86	600.00	160.26	0.16	3743.92	12.00	14.00	13.67	3743.92	0.43
		4-5	15.00	319.54	163.43	151.52	150.88	640.00	168.02	0.17	3809.07	15.00	13.00	13.01	3809.07	0.41
		4-6	18.00	322.64	169.18	151.87	151.22	650.00	170.77	0.17	3806.29	18.00	13.00	13.50	3806.29	0.43
		4-7	21.00	349.31	167.72	152.61	151.84	770.00	196.70	0.20	3914.59	21.00	25.00	13.04	3914.59	0.43
										AVG =	**3578.79**	22.00	0.00	2.50	3914.59	0.08
6.02	in/hr	avg									3578.79			**Total Solids Lost:**		**2.67**
8-Aug-12		6-1	3.00	321.74	168.05	151.38	151.02	360.00	170.36	0.17	2113.17	3.00	9.00	23.57	2113.17	0.42
		6-2	6.00	324.38	175.78	152.07	151.52	550.00	172.31	0.17	3191.92	6.00	8.00	24.07	3191.92	0.64
		6-3	9.00	316.13	172.85	151.80	151.23	570.00	164.33	0.16	3468.63	9.00	7.00	25.14	3468.63	0.73
		6-4	12.00	311.95	171.67	151.70	151.08	620.00	160.25	0.16	3868.95	12.00	7.00	25.71	3868.95	0.83
		6-5	15.00	343.30	166.16	152.06	151.24	820.00	191.24	0.19	4287.81	15.00	7.00	25.71	4287.81	0.92
		6-6	18.00	302.80	165.41	152.27	151.43	840.00	150.53	0.15	5580.28	18.00	7.00	24.57	5580.28	1.14
		6-7	21.00	310.37	169.16	152.21	151.20	1010.00	158.16	0.16	6385.94	21.00	30.00	20.38	6385.94	1.09
										AVG =	**4128.10**	24.00	0.00	4.29	6385.94	0.23
											4128.10			**Total Solids Lost:**		**5.99**

2-Aug-12
Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.11 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	3937	0.03	0.03	0.03	
2-2	2.00	348	0.03	0.03	0.06	
2-3	3.00	363	0.17	0.17	0.23	
2-4	4.00	439	0.15	0.15	0.38	
2-5	5.00	409	0.14	0.14	0.52	
2-6	6.00	379	0.15	0.15	0.67	
2-7	7.00	379	0.16	0.16	0.83	
2-8	8.00	333	0.17	0.17	1.00	
2-9	9.00	333	0.18	0.18	1.18	
2-10	10.00	333	0.18	0.18	1.36	
2-11	11.00	303	0.19	0.19	1.55	
2-12	12.00	333	0.19	0.19	1.74	
2-13	13.00	242	0.21	0.21	1.94	
2-14	14.00	257	0.24	0.24	2.18	
2-15	15.00	257	0.23	0.23	2.42	
2-16	16.00	257	0.23	0.23	2.65	
2-17	17.00	227	0.25	0.25	2.90	
2-18	18.00	212	0.27	0.27	3.17	
2-19	19.00	106	0.38	0.38	3.55	
2-20	20.00	61	0.72	0.72	4.27	
2-21	21.00	333	0.30	0.30	4.57	
2-end	22.00	0	0.50	0.50	5.07	
					5.07	**Total Collected Runoff (approx)**
3.94 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	106	1.13	1.13	1.13	
4-2	2	22	0.94	0.94	2.07	
4-3	3	20	2.86	2.86	4.93	
4-4	4	18	3.16	3.16	8.08	
4-5	5	18	3.33	3.33	11.42	
4-6	6	17	3.43	3.43	14.85	
4-7	7	17	3.53	3.53	18.37	
4-8	8	16	3.64	3.64	22.01	
4-9	9	16	3.75	3.75	25.76	
4-10	10	15	3.87	3.87	29.63	
4-11	11	15	4.00	4.00	33.63	
4-12	12	15	4.00	4.00	37.63	
4-13	13	15	4.00	4.00	41.63	
4-14	14	15	4.00	4.00	45.63	
4-15	15	14	4.14	4.14	49.77	
4-16	16	12	4.61	4.61	54.38	
4-17	17	12	5.00	5.00	59.38	
4-18	18	12	5.00	5.00	64.38	
4-19	19	12	5.00	5.00	69.38	
4-20	20	12	5.00	5.00	74.38	
4-21	21	26	3.16	3.16	77.54	
4-end	23.00	0	2.50	2.50	80.04	
					80.04	**Total Collected Runoff (approx)**
6.14 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	14	8.57	8.57	8.57	
6-2	2	8	5.45	5.45	14.02	
6-3	3	8	7.50	7.50	21.52	
6-4	4	8	7.50	7.50	29.02	
6-5	5	6	8.57	8.57	37.59	
6-6	6	7	9.23	9.23	46.82	
6-7	7	7	8.57	8.57	55.39	
6-8	8	8	8.00	8.00	63.39	
6-9	9	7	8.00	8.00	71.39	
6-10	10	8	8.00	8.00	79.39	
6-11	11	8	7.50	7.50	86.89	
6-12	12	8	7.50	7.50	94.39	
6-13	13	8	7.50	7.50	101.89	
6-14	14	8	7.50	7.50	109.39	
6-15	15	7	8.00	8.00	117.39	
6-16	16	7	8.57	8.57	125.96	
6-17	17	7	8.57	8.57	134.53	
6-18	18	7	8.57	8.57	143.10	
6-19	19	6	9.23	9.23	152.33	
6-20	20	6	10.00	10.00	162.33	
6-21	21	15	5.71	5.71	168.04	
6-end	24.00	0	5.00	5.00	173.04	
					173.04	**Total Collected Runoff (approx)**

2-Aug-12
Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.07 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	681	0.18	0.18	0.18	
2-2	2.00	591	0.09	0.09	0.27	
2-3	3.00	515	0.11	0.11	0.38	
2-4	4.00	575	0.11	0.11	0.49	
2-5	5.00	560	0.11	0.11	0.59	
2-6	6.00	530	0.11	0.11	0.70	
2-7	7.00	379	0.13	0.13	0.84	
2-8	8.00	363	0.16	0.16	1.00	
2-9	9.00	363	0.17	0.17	1.16	
2-10	10.00	379	0.16	0.16	1.33	
2-11	11.00	363	0.16	0.16	1.49	
2-12	12.00	363	0.17	0.17	1.65	
2-13	13.00	318	0.18	0.18	1.83	
2-14	14.00	288	0.20	0.20	2.03	
2-15	15.00	288	0.21	0.21	2.24	
2-16	16.00	212	0.24	0.24	2.48	
2-17	17.00	273	0.25	0.25	2.72	
2-18	18.00	242	0.23	0.23	2.96	
2-19	19.00	242	0.25	0.25	3.20	
2-20	20.00	303	0.22	0.22	3.42	
2-21	21.00	530	0.14	0.14	3.57	
2-end	22.00	0	0.10	0.10	3.67	
					3.67	**Total Collected Runoff (approx)**
4.07 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	318	0.38	0.38	0.38	
4-2	2	19	0.36	0.36	0.73	
4-3	3	18	3.24	3.24	3.98	
4-4	4	16	3.53	3.53	7.51	
4-5	5	16	3.75	3.75	11.26	
4-6	6	16	3.75	3.75	15.00	
4-7	7	15	3.87	3.87	18.88	
4-8	8	14	4.14	4.14	23.01	
4-9	9	14	4.29	4.29	27.30	
4-10	10	14	4.29	4.29	31.58	
4-11	11	14	4.29	4.29	35.87	
4-12	12	14	4.29	4.29	40.15	
4-13	13	13	4.44	4.44	44.60	
4-14	14	13	4.61	4.61	49.21	
4-15	15	12	4.80	4.80	54.01	
4-16	16	12	5.00	5.00	59.01	
4-17	17	13	4.80	4.80	63.81	
4-18	18	15	4.29	4.29	68.10	
4-19	19	17	3.75	3.75	71.85	
4-20	20	13	4.00	4.00	75.85	
4-21	21	35	2.50	2.50	78.35	
4-end	22	0	2.31	2.31	80.65	
					80.65	**Total Collected Runoff (approx)**
6.12 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	29	4.14	4.14	4.14	
6-2	2	12	2.93	2.93	7.06	
6-3	3	10	5.45	5.45	12.52	
6-4	4	10	6.00	6.00	18.52	
6-5	5	9	6.32	6.32	24.83	
6-6	6	9	6.67	6.67	31.50	
6-7	7	8	7.06	7.06	38.56	
6-8	8	8	7.50	7.50	46.06	
6-9	9	8	7.50	7.50	53.55	
6-10	10	7	8.00	8.00	61.55	
6-11	11	7	8.57	8.57	70.12	
6-12	12	7	8.57	8.57	78.69	
6-13	13	7	8.57	8.57	87.27	
6-14	14	7	8.57	8.57	95.84	
6-15	15	6	9.23	9.23	105.07	
6-16	16	6	10.00	10.00	115.06	
6-17	17	6	10.00	10.00	125.06	
6-18	18	6	10.00	10.00	135.06	
6-19	19	6	10.00	10.00	145.06	
6-20	20	6	10.00	10.00	155.06	
6-21	21	15	5.71	5.71	160.77	
6-end	24	0	5.00	5.00	165.77	
					165.77	**Total Collected Runoff (approx)**

8-Aug-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.05 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	908	0.13	0.13	0.13	
2-2	2.00	908	0.07	0.07	0.20	
2-3	3.00	908	0.07	0.07	0.26	
2-4	4.00	908	0.07	0.07	0.33	
2-5	5.00	908	0.07	0.07	0.40	
2-6	6.00	908	0.07	0.07	0.46	
2-7	7.00	908	0.07	0.07	0.53	
2-8	8.00	908	0.07	0.07	0.59	
2-9	9.00	908	0.07	0.07	0.66	
2-10	10.00	908	0.07	0.07	0.73	
2-11	11.00	908	0.07	0.07	0.79	
2-12	12.00	757	0.07	0.07	0.86	
2-13	13.00	757	0.08	0.08	0.94	
2-14	14.00	242	0.12	0.12	1.06	
2-15	15.00	61	0.40	0.40	1.46	
2-16	16.00	45	1.13	1.13	2.59	
2-17	17.00	45	1.32	1.32	3.91	
2-18	18.00	45	1.32	1.32	5.23	
2-19	19.00	45	1.32	1.32	6.55	
2-20	20.00	45	1.32	1.32	7.88	
2-21	21.00	227	0.44	0.44	8.32	
2-end	21.00	0	0.66	0.66	8.98	
					8.98	**Total Collected Runoff (approx)**
4.04 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	136	0.88	0.88	0.88	
4-2	2	16	0.79	0.79	1.67	
4-3	3	15	3.87	3.87	5.54	
4-4	4	14	4.14	4.14	9.68	
4-5	5	14	4.29	4.29	13.96	
4-6	6	14	4.29	4.29	18.25	
4-7	7	14	4.29	4.29	22.53	
4-8	8	14	4.29	4.29	26.82	
4-9	9	13	4.44	4.44	31.26	
4-10	10	13	4.61	4.61	35.88	
4-11	11	13	4.61	4.61	40.49	
4-12	12	14	4.44	4.44	44.94	
4-13	13	14	4.29	4.29	49.22	
4-14	14	14	4.29	4.29	53.51	
4-15	15	13	4.44	4.44	57.95	
4-16	16	14	4.44	4.44	62.39	
4-17	17	13	4.44	4.44	66.84	
4-18	18	13	4.61	4.61	71.45	
4-19	19	12	4.80	4.80	76.25	
4-20	20	12	5.00	5.00	81.25	
4-21	21	25	3.24	3.24	84.49	
4-end	22	0	2.50	2.50	86.99	
					86.99	**Total Collected Runoff (approx)**
6.02 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	11	10.91	10.91	10.91	
6-2	2	9	6.00	6.00	16.91	
6-3	3	9	6.67	6.67	23.57	
6-4	4	7	7.50	7.50	31.07	
6-5	5	7	8.57	8.57	39.64	
6-6	6	8	8.00	8.00	47.64	
6-7	7	7	8.00	8.00	55.64	
6-8	8	7	8.57	8.57	64.21	
6-9	9	7	8.57	8.57	72.78	
6-10	10	7	8.57	8.57	81.35	
6-11	11	7	8.57	8.57	89.92	
6-12	12	7	8.57	8.57	98.49	
6-13	13	7	8.57	8.57	107.06	
6-14	14	7	8.57	8.57	115.63	
6-15	15	7	8.57	8.57	124.21	
6-16	16	8	8.00	8.00	132.20	
6-17	17	7	8.00	8.00	140.20	
6-18	18	7	8.57	8.57	148.77	
6-19	19	7	8.57	8.57	157.34	
6-20	20	7	8.57	8.57	165.91	
6-21	21	30	3.24	3.24	169.16	
6-end	24	0	4.29	4.29	173.44	
					173.44	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	2-Aug-12	2-Aug-12	8-Aug-12
Avg Moisture Content:	**22.85%**	**23.26%**	**22.76%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	251.04	264.28	253.55
Wt. Of cup + dry soil, g	244.42	255.59	246.76
Wt. Of cup, g	217.12	217.12	216.08
Wt. Of dry soil, g	27.3	38.47	30.68
Wt. Of water, g	6.62	8.69	6.79
Water Content, w%	24.2%	22.6%	22.1%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	260.59	259.19	252.04
Wt. Of cup + dry soil, g	252.79	250.97	245.53
Wt. Of cup, g	216.57	216.08	216.8
Wt. Of dry soil, g	36.22	34.89	28.73
Wt. Of water, g	7.8	8.22	6.51
Water Content, w%	21.5%	23.6%	22.7%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	255.43	253.69	250.09
Wt. Of cup + dry soil, g	248.26	246.69	243.73
Wt. Of cup, g	216.75	217.07	216.66
Wt. Of dry soil, g	31.51	29.62	27.07
Wt. Of water, g	7.17	7	6.36
Water Content, w%	22.8%	23.6%	23.5%

Soil Loss Data

Slope No.	1	2	3
Test Date:	2-Aug-12	2-Aug-12	8-Aug-12
Total Soil Loss	**8.76**	**11.04**	**8.73**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		27.2	18.16	36.3
Sub-Sample	Wt. Of cup + wet soil, g	27.2	18.16	36.3
	Wt. Of cup + dry soil, g	27.2	18.16	36.3
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	27.2	18.16	36.3
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.060	0.040	0.080

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		817.2	1225.8	1098.7
Sub-Sample	Wt. Of cup + wet soil, g	817.2	1225.8	1098.7
	Wt. Of cup + dry soil, g	817.2	1225.8	1098.7
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	817.2	1225.8	1098.7
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		1.800	2.700	2.420

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		3132.6	3768.2	2828.4
Sub-Sample	Wt. Of cup + wet soil, g	3132.6	3768.2	2828.4
	Wt. Of cup + dry soil, g	3132.6	3768.2	2828.4
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	3132.6	3768.2	2828.4
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		6.900	8.300	6.230

TYPICAL TESTING PICTURES



Slope Prepared and Compost Sock Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event





Typical Control Run - Before and After

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 8-Aug-12 | Start Rain: 9:03 AM | End Rain: 9:23 AM

Sampling interval: 0:03 | End Runoff: 9:24 AM

Rain Time (min): 20.00 | Test Time (min): 21.00

Product: Compost Sock | Descr:. Type B Alt. - Filtrexx Sock

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

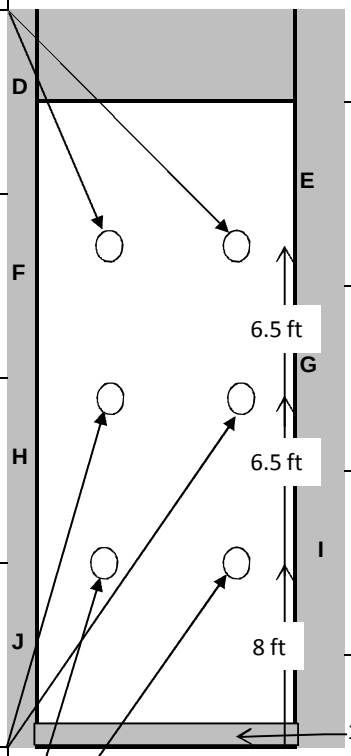
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.4%

d = 18 17 mm

i = 2.13 2.01 in/hr



x						x
X	P = 9 psi	**D**				x
x						x
x				**E**	P = 9 psi	**X**
x						x
X	P = 9 psi	**F**				x
x						x
x				**G**	P = 9 psi	x
x						**X**
x	P = 9 psi	**H**				x
X						x
x				**I**	P = 9 psi	x
x						**X**
x	P = 9 psi	**J**				x
X						
x						

d = 17 16 mm

i = 2.01 1.89 in/hr

x x **X** x

P = 9 psi

Temp. 72 deg

Hum. 94 %

w_{c2} = 24.3%

d = 17 19 mm

i = 2.01 2.24 in/hr

w_{c3} = 23.4%

Average Depth: **17** **mm**

Avg Rainfall Intensity: **2.05** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:06	X	X
9:09	X	X
9:12	X	X
9:15	X	X
9:18	X	X
9:21	X	X
9:24	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	40
2	250	40
3	250	35
4	250	34
5	250	32
6	250	30
7	250	28
8	250	23
9	250	20
10	250	15
11	250	11
12	250	11
13	250	11
14	250	11
15	250	11
16	250	11
17	250	11
18	250	11
19	250	10
20	250	10
21	250	22
21	250	0

NOTES:

Wind: 0 mph. Direction: SE

Approx 5 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date:	8-Aug-12	Start Rain:	9:29 AM	End Rain:	9:49 AM
		Sampling interval:	0:03	End Runoff:	9:51 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	Compost Sock	Descr:.	Type B Alt. - Filtrexx Sock		
Lot #:		Posts:	Wood Stakes	Spacing:	1.5-ft

TOP OF SLOPE

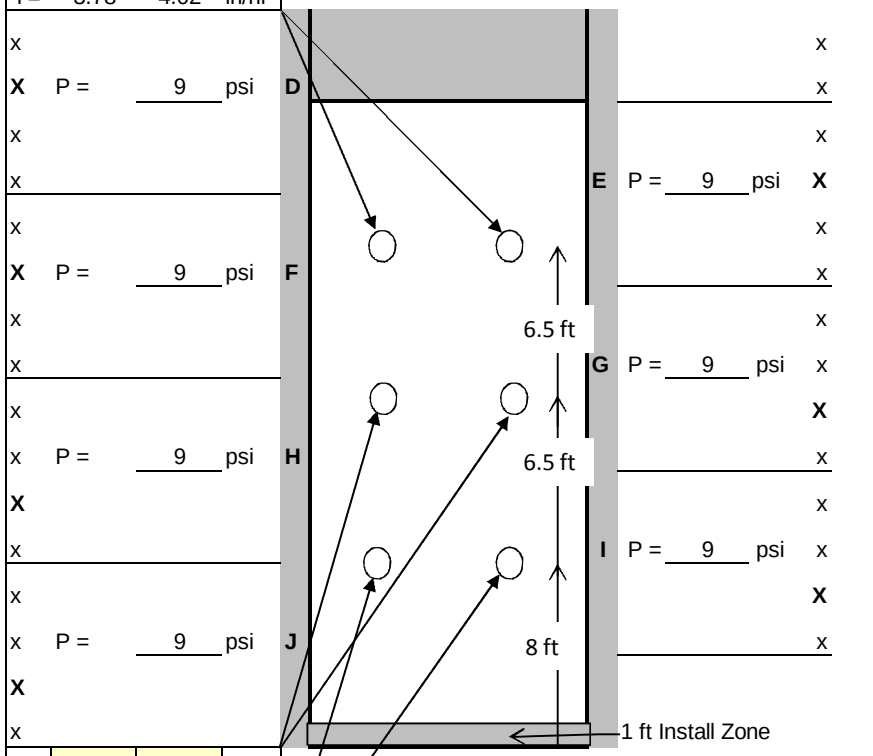
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.4%

d = 32 34 mm

i = 3.78 4.02 in/hr



d = 33 34 mm

i = 3.90 4.02 in/hr

x x **X** x

P = 9 psi

Temp. 73 deg

Hum. 94 %

w_{c2} = 24.3%

d = 34 35 mm

i = 4.02 4.13 in/hr

w_{c3} = 23.4%

Average Depth: 34 mm

Avg Rainfall Intensity: 3.98 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:32	X	X
9:35	X	X
9:38	X	X
9:41	X	X
9:44	X	X
9:47	X	X
9:50	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	3
2	250	3
3	3785	18
4	3785	18
5	3785	18
6	3785	18
7	3785	17
8	3785	17
9	3785	17
10	3785	16
11	3785	16
12	3785	16
13	3785	16
14	3785	15
15	3785	15
16	3785	15
17	3785	15
18	3785	15
19	3785	15
20	3785	14
21	3785	26
22	3785	0

NOTES:
Wind: 0-2 mph. Direction: SE
Approx 75 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 8-Aug-12 | Start Rain: 9:58 AM | End Rain: 10:18 AM

Sampling interval: 0:03 | End Runoff: 10:28 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: Compost Sock | Descr:. Type B Alt. - Filtrexx Sock

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

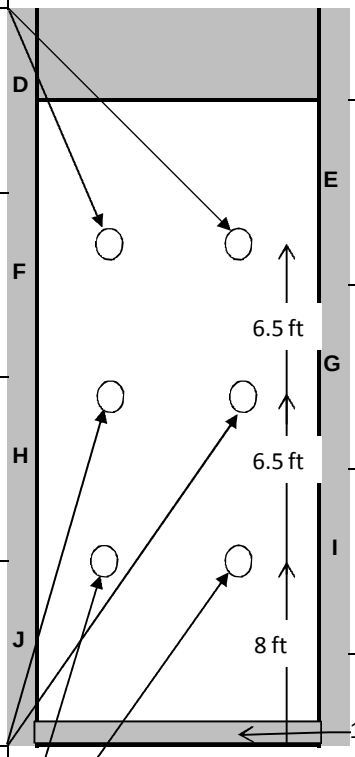
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.4%

d =	50	53	mm
i =	5.91	6.26	in/hr

x
X P = 9 psi **D** x
x x
x **E** P = 9 psi **X**
x x
X P = 9 psi **F** x
x x
x **G** P = 9 psi x
x **X**
x P = 9 psi **H** x
X x
x **I** P = 9 psi x
x **X**
x P = 9 psi **J** x
X
x 1 ft Install Zone



d =	49	52	mm
i =	5.79	6.14	in/hr

x x **X** x

P = 9 psi Temp. 75 deg

Hum. 87 %

w_{c2} = 24.3%

d =	48	53	51
i =	5.67	6.26	in/hr

w_{c3} = 23.4%

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
10:01	X	X
10:04	X	X
10:07	X	X
10:10	X	X
10:13	X	X
10:16	X	X
10:19	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	60
2	3785	25
3	3785	15
4	3785	9
5	3785	8
6	3785	7
7	3785	6
8	3785	6
9	3785	6
10	3785	6
11	3785	6
12	3785	6
13	3785	6
14	3785	6
15	3785	6
16	3785	6
17	3785	6
18	3785	6
19	3785	6
20	3785	6
21	3785	15
30	3785	0

NOTES: OVERTOPPING AT 17min

Wind: 0 mph. Direction: SW

Approx 175 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date:	10-Aug-12	Start Rain:	7:10 AM	End Rain:	7:30 AM
		Sampling interval:	0:03	End Runoff:	7:32 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	Compost Sock	Descr:.	Type B Alt. - Filtrexx Sock		
Lot #:		Posts:	Wood Stakes	Spacing:	1.5-ft

TOP OF SLOPE

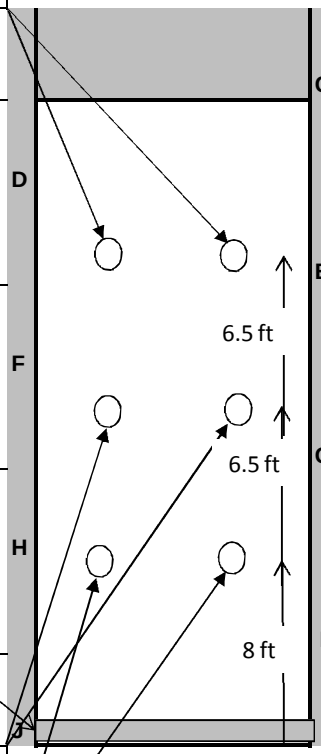
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.4%

d = 18 17 mm

i = 2.13 2.01 in/hr



x							x
				C	P = 9 psi		X
x							x
X	P = 9 psi		D				x
x							x
x				E	P = 9 psi		X
x							x
X	P = 9 psi		F				x
x							x
x				G	P = 9 psi		x
x							X
x	P = 9 psi		H				x
X							x
x				I	P = 9 psi		x
							X
			J				x

d = 17 18 mm

i = 2.01 2.13 in/hr

x x **X** x

P = 9 psi

Temp. 70 deg

Hum. 95 %

w_{c2} = 24.3%

d = 17 17 mm

i = 2.01 2.01 in/hr

w_{c3} = 23.4%

Average Depth: **17** **mm**

Avg Rainfall Intensity: **2.05** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:13	X	X
7:16	X	X
7:19	X	X
7:22	X	X
7:25	X	X
7:28	X	X
7:31	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	60
2	250	60
3	250	48
4	250	37
5	250	35
6	250	33
7	250	31
8	250	29
9	250	27
10	250	25
11	250	20
12	250	8
13	250	7
14	250	6
15	250	5
16	250	5
17	250	5
18	250	4
19	250	3
20	250	3
21	250	10
22	250	0

NOTES:

Wind: 1 mph. Direction: W

Approx 10 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 10-Aug-12 | Start Rain: 7:34 AM | End Rain: 7:54 AM

Sampling interval: 0:03 | End Runoff: 7:57 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: Compost Sock | Descr:. Type B Alt. - Filtrexx Sock

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

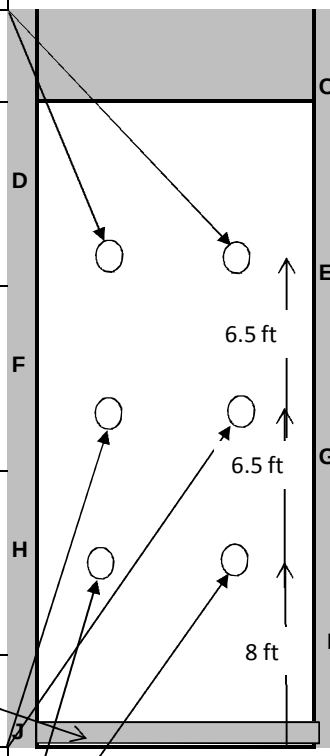
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.4%

d = 32 35 mm

i = 3.78 4.13 in/hr



				C	P = 9 psi	X
x				D	P = 9 psi	X
x				E	P = 9 psi	X
x				F	P = 9 psi	X
x				G	P = 9 psi	x
x				H	P = 9 psi	x
x				I	P = 9 psi	x
x				J		x

d = 32 35 mm

i = 3.78 4.13 in/hr

w_{c2} = 24.3%

d = 33 35 mm

i = 3.90 4.13 in/hr

w_{c3} = 23.4%

x x **X** x

P = 9 psi

Temp. 70 deg

Hum. 95 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **3.98** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:37	X	X
7:40	X	X
7:43	X	X
7:46	X	X
7:49	X	X
7:52	X	X
7:55	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	15
2	250	6
3	250	4
4	250	3
5	3785	34
6	3785	31
7	3785	25
8	3785	20
9	3785	18
10	3785	15
11	3785	12
12	3785	13
13	3785	12
14	3785	12
15	3785	11
16	3785	11
17	3785	11
18	3785	11
19	3785	11
20	3785	11
21	3785	21
23	3785	0

NOTES:

Wind: 0-1 mph. Direction: W

Approx 80 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date: 10-Aug-12 | Start Rain: 8:00 AM | End Rain: 8:20 AM

Sampling interval: 0:03 | End Runoff: 8:30 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: Compost Sock | Descr:. Type B Alt. - Filtrexx Sock

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

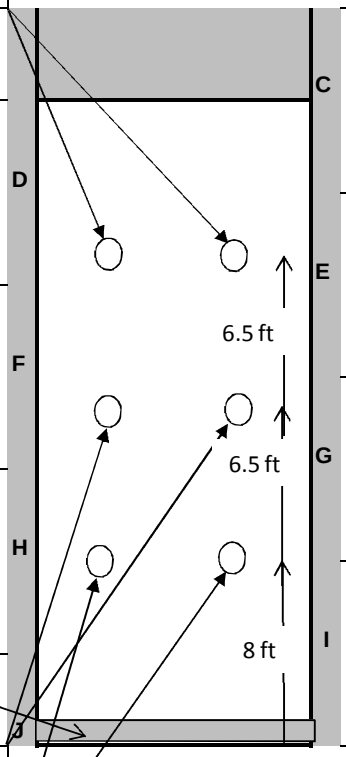
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.4%

d = 54 50 mm

i = 6.38 5.91 in/hr



x					x
			C	P = 9 psi	X
x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
					X
		J			x

x x **X** x

P = 9 psi

Temp. 70 deg

Hum. 95 %

w_{c2} = 24.3%

d = 52 50 mm

i = 6.14 5.91 in/hr

w_{c3} = 23.4%

d = 52 50 mm

i = 6.14 5.91 in/hr

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.06** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:03	X	X
8:06	X	X
8:09	X	X
8:12	X	X
8:15	X	X
8:18	X	X
8:21	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	7
2	250	3
3	3785	10
4	3785	10
5	3785	10
6	3785	9
7	3785	9
8	3785	8
9	3785	8
10	3785	8
11	3785	7
12	3785	6
13	3785	6
14	3785	6
15	3785	6
16	3785	6
17	3785	6
18	3785	5
19	3785	5
20	3785	5
21	3785	18
30	3785	0

NOTES:

Wind: 0 mph. Direction: W

Approx 165 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date: 16-Aug-12 | Start Rain: 8:44 AM | End Rain: 9:04 AM

Sampling interval: 0:03 | End Runoff: 9:06 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: Filtrexx | Descr:. Type B A;t Filtrexx Stock

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

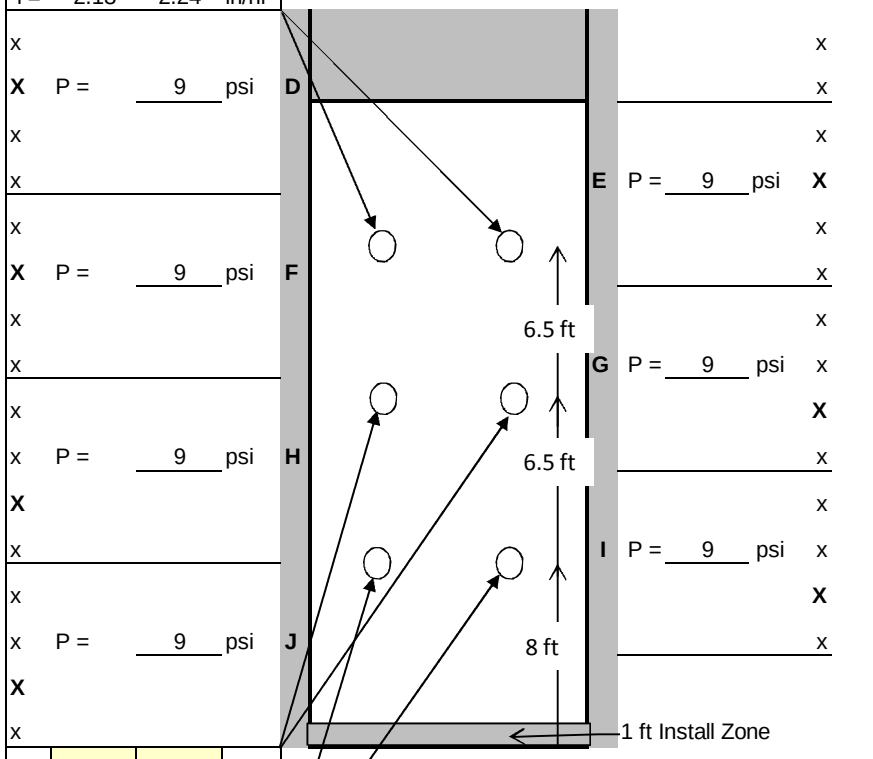
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 23.4%

d = 18 19 mm

i = 2.13 2.24 in/hr



d = 17 17 mm

i = 2.01 2.01 in/hr

w_{c2} = 19.1%

d = 18 19 mm

i = 2.13 2.24 in/hr

w_{c3} = 23.4%

x x X x

P = 10 psi

Temp. 69 deg

Hum. 84 %

Average Depth: 18 mm

Avg Rainfall Intensity: 2.13 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:47	X	X
8:50	X	X
8:53	X	X
	X	X
0:03	X	X
0:06	X	X
0:09	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	18
2	250	25
3	250	28
4	250	27
5	250	29
6	250	26
7	250	13
8	250	8
9	250	7
10	250	5
11	250	5
12	250	4
13	250	4
14	250	4
15	250	4
16	250	4
17	250	4
18	250	4
19	250	4
20	250	4
21	250	4
22	250	0

Notes:

Wind: 0 mph. Directions: N

Approx: 15 gallons collected

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date:	16-Aug-12	Start Rain:	9:09 AM	End Rain:	9:29 AM
		Sampling interval:	0:03	End Runoff:	9:32 AM
		Rain Time (min):	20.00	Test Time (min):	23.00
Product:	Filtrexx	Descr:.	Type B Alt. Filtrexx Stakes		
Lot #:		Posts:	Wood Stakes	Spacing:	1.5-ft

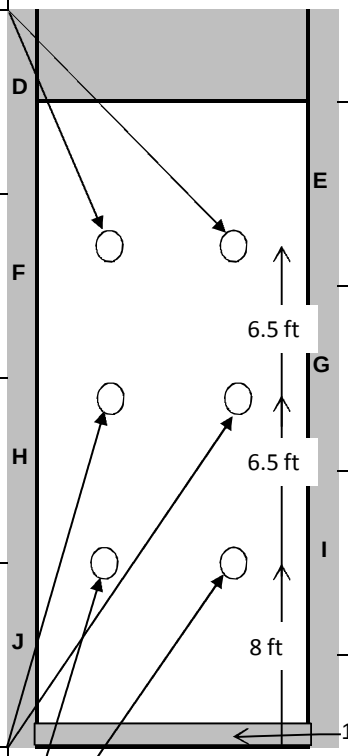
TOP OF SLOPE

(circle "x" for open valves) **Set valves to 15 psi.**

w_{c1} = 23.4%

d = 35 36 mm

i = 4.13 4.25 in/hr



x								x
X	P =	9	psi	D				x
x								x
x					E	P =	9 psi	X
x								x
X	P =	9	psi	F				x
x								x
x					G	P =	9 psi	x
x								X
x	P =	9	psi	H				x
X								x
x					I	P =	9 psi	x
x								X
x	P =	9	psi	J				x
X								
x								

d = 34 34 mm

i = 4.02 4.02 in/hr

w_{c2} = 19.1%

d = 34 35 mm

i = 4.02 4.13 in/hr

w_{c3} = 23.4%

x x **X** x

P = 10 psi Temp. 71 deg

Hum. 77 %

Average Depth: **35** **mm**

Avg Rainfall Intensity: **4.09** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:12	X	X
9:15	X	X
9:18	X	X
9:21	X	X
9:24	X	X
9:27	X	X
9:30	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	12
2	250	3
3	3785	12
4	3785	11
5	3785	11
6	3785	11
7	3785	11
8	3785	11
9	3785	11
10	3785	11
11	3785	10
12	3785	10
13	3785	10
14	3785	10
15	3785	10
16	3785	10
17	3785	10
18	3785	9
19	3785	9
20	3785	9
21	3785	18
23	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 110 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 16-Aug-12 | Start Rain: 9:35 AM | End Rain: 9:55 AM

Sampling interval: 0:03 | End Runoff: 10:05 AM

Rain Time (min): 20.00 | Test Time (min): 30.00

Product: Filtrexx | Descr:. Type B Alt. Filtrexx Stake

Lot #: | Posts: Wood Stakes | Spacing: 1.5-ft

TOP OF SLOPE

(circle "x" for open valves)

	Set valv	Set valv
w_{c1} = 23.4%		
d = 54 mm	56 mm	
i = 6.38 in/hr	6.61 in/hr	
x		x
X P = 9 psi	D	x
x		x
x	E P = 9 psi	X
x		x
X P = 9 psi	F	x
x	6.5 ft	x
x	G P = 9 psi	x
x		X
x P = 9 psi	H	x
X	6.5 ft	x
x	I P = 9 psi	x
x		X
x P = 9 psi	J	x
X	8 ft	
x	1 ft Install Zone	
d = 54 mm	55 mm	x x X x
i = 6.38 in/hr	6.50 in/hr	P = 9 psi
w_{c2} = 19.1%		
d = 51 mm	50 mm	
i = 6.02 in/hr	5.91 in/hr	
w_{c3} = 23.4%		

Temp. 74 deg

Hum. 75 %

Average Depth: 53 mm

Avg Rainfall Intensity: 6.30 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:38	X	X
9:41	X	X
9:44	X	X
9:47	X	X
9:50	X	X
9:53	X	X
9:56	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	8
2	3785	11
3	3785	7
4	3785	7
5	3785	7
6	3785	7
7	3785	7
8	3785	7
9	3785	7
10	3785	7
11	3785	7
12	3785	7
13	3785	6
14	3785	6
15	3785	6
16	3785	6
17	3785	6
18	3785	6
19	3785	6
20	3785	7
21	3785	8
30	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 175 gallons collected.

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	117
2	20	124
3	20	67.4

Compost Sock Type B Alt. - Filtrexx Sock

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	739	2-1	3.00	2414	2-1	3.00	1142
2-2	6.00	571	2-2	6.00	1422	2-2	6.00	844
2-3	9.00	731	2-3	9.00	845	2-3	9.00	2719
2-4	12.00	1729	2-4	12.00	3404	2-4	12.00	3484
2-5	15.00	1778	2-5	15.00	2547	2-5	15.00	4905
2-6	18.00	1911	2-6	18.00	1346	2-6	18.00	3650
2-7	21.00	1521	2-7	21.00	1544	2-7	21.00	3563
avg		**1283**	avg		**1932**	avg		**2901**
4-1	3.00	2667	4-1	2.00	1679	4-1	2.00	9999
4-2	6.00	2428	4-2	4.00	3586	4-2	4.00	9999
4-3	9.00	2839	4-3	6.00	4989	4-3	6.00	6572
4-4	12.00	2741	4-4	8.00	2972	4-4	8.00	6262
4-5	15.00	2886	4-5	10.00	3204	4-5	10.00	5013
4-6	18.00	1886	4-6	12.00	4693	4-6	12.00	5657
4-7	21.00	2283	4-7	21.00	2655	4-7	21.00	3249
avg		**2533**	avg		**3397**	avg		**6679**
6-1	3.00	2244	6-1	3.00	3519	6-1	3.00	3791
6-2	6.00	2665	6-2	6.00	4575	6-2	6.00	7664
6-3	9.00	3400	6-3	9.00	7081	6-3	9.00	9999
6-4	12.00	2943	6-4	12.00	7599	6-4	12.00	9999
6-5	15.00	3067	6-5	15.00	5789	6-5	15.00	5291
6-6	18.00	3329	6-6	18.00	6333	6-6	18.00	7611
6-7	21.00	3456	6-7	21.00	3331	6-7	21.00	9718
avg		**3015**	avg		**5461**	avg		**7725**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.05	in/hr	avg														
8-Aug-12		2-1	3.00	310.73	160.90	150.54	150.41	130.00	160.19	0.16	811.54	3.00	529.96	0.40	811.54	0.00
		2-2	6.00	336.63	157.94	147.80	147.48	320.00	188.83	0.19	1694.65	6.00	454.25	0.36	1694.65	0.01
		2-3	9.00	348.52	171.95	149.90	149.76	140.00	198.62	0.20	704.86	9.00	302.83	0.48	704.86	0.00
		2-4	12.00	344.09	183.79	147.98	147.71	270.00	196.11	0.20	1376.78	12.00	166.56	0.89	1376.78	0.01
		2-5	15.00	336.15	178.29	147.79	147.48	310.00	188.36	0.19	1645.78	15.00	166.56	1.08	1645.78	0.01
		2-6	18.00	355.39	176.24	150.00	149.66	340.00	205.39	0.21	1655.39	18.00	166.56	1.08	1655.39	0.01
		2-7	21.00	276.84	168.48	149.81	149.55	260.00	127.03	0.13	2046.76	21.00	333.12	1.02	2046.76	0.02
										AVG =	**1419.39**	21.00	0	0.20	2046.76	0.00
3.98	in/hr	avg									1419.39			**Total Solids Lost:**		**0.07**
8-Aug-12		4-1	3.00	315.36	173.19	150.69	150.62	70.00	164.67	0.16	425.09	3.00	18.00	5.85	425.09	0.02
		4-2	6.00	307.87	168.20	149.69	149.36	330.00	158.18	0.16	2086.23	6.00	18.00	10.00	2086.23	0.17
		4-3	9.00	351.33	159.26	150.33	149.94	390.00	201.00	0.20	1940.30	9.00	17.00	10.49	1940.30	0.17
		4-4	12.00	323.46	159.50	151.78	151.38	400.00	171.68	0.17	2329.92	12.00	16.00	11.14	2329.92	0.22
		4-5	15.00	326.37	157.70	146.68	146.31	370.00	179.69	0.18	2059.10	15.00	15.00	11.62	2059.10	0.20
		4-6	18.00	322.12	157.61	151.38	150.97	410.00	170.74	0.17	2401.31	18.00	15.00	12.00	2401.31	0.24
		4-7	21.00	350.92	164.79	150.88	150.54	340.00	200.04	0.20	1699.66	21.00	26.00	11.14	1699.66	0.16
										AVG =	**1848.80**	22.00	0.00	2.14	1699.66	0.03
6.00	in/hr	avg									1848.80			**Total Solids Lost:**		**1.21**
8-Aug-12		6-1	3.00	312.13	170.65	150.77	150.38	390.00	161.36	0.16	2416.96	3.00	15.00	6.41	2416.96	0.13
		6-2	6.00	346.64	157.52	149.18	148.67	510.00	197.46	0.20	2582.80	6.00	7.00	20.06	2582.80	0.43
		6-3	9.00	313.51	162.99	148.59	148.14	450.00	164.92	0.16	2728.60	9.00	6.00	29.23	2728.60	0.67
		6-4	12.00	343.25	156.42	148.13	147.56	570.00	195.12	0.20	2921.28	12.00	6.00	30.00	2921.28	0.73
		6-5	15.00	321.74	163.72	151.19	150.71	480.00	170.55	0.17	2814.42	15.00	6.00	30.00	2814.42	0.70
		6-6	18.00	340.63	159.55	152.13	151.57	560.00	188.50	0.19	2970.82	18.00	6.00	30.00	2970.82	0.74
		6-7	21.00	326.43	161.90	151.07	150.54	530.00	175.36	0.18	3022.35	21.00	15.00	25.71	3022.35	0.65
										AVG =	**2779.60**	30.00	0.00	5.00	3022.35	0.13
											2779.60			**Total Solids Lost:**		**4.18**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.05	in/hr	avg														
10-Aug-12		2-1	3.00	212.88	153.01	149.24	149.13	110.00	63.64	0.06	1728.47	3.00	726.80	0.27	1728.47	0.00
		2-2	6.00	241.49	161.41	150.42	150.32	100.00	91.07	0.09	1098.06	6.00	499.67	0.32	1098.06	0.00
		2-3	9.00	319.56	169.29	151.68	151.36	320.00	167.88	0.17	1906.12	9.00	408.82	0.40	1906.12	0.01
		2-4	12.00	338.81	159.78	151.60	151.28	320.00	187.21	0.19	1709.31	12.00	121.13	0.61	1709.31	0.01
		2-5	15.00	342.45	169.24	150.45	149.95	500.00	192.00	0.19	2604.17	15.00	75.71	1.86	2604.17	0.04
		2-6	18.00	341.79	172.64	151.73	151.49	240.00	190.06	0.19	1262.76	18.00	60.57	2.47	1262.76	0.03
		2-7	21.00	344.28	173.21	150.33	149.84	490.00	193.95	0.19	2526.42	21.00	151.42	3.06	2526.42	0.06
										AVG =	**1833.62**	22.00	0.00	0.66	2526.42	0.01
3.98	in/hr	avg									1833.62			**Total Solids Lost:**		**0.17**
10-Aug-12		4-1	3.00	352.08	172.49	148.91	148.61	300.00	203.17	0.20	1476.60	3.00	60.57	1.70	1476.60	0.02
		4-2	6.00	306.03	163.07	150.18	149.81	370.00	155.85	0.16	2374.08	6.00	31.00	4.49	2374.08	0.09
		4-3	9.00	327.59	170.91	150.29	149.82	470.00	177.30	0.18	2650.87	9.00	18.00	7.97	2650.87	0.18
		4-4	12.00	339.86	166.55	149.09	148.67	420.00	190.77	0.19	2201.60	12.00	13.00	12.88	2201.60	0.24
		4-5	15.00	345.27	169.32	149.67	149.44	230.00	195.60	0.20	1175.87	15.00	11.00	15.02	1175.87	0.15
		4-6	18.00	331.17	160.33	147.80	147.46	340.00	183.37	0.18	1854.17	18.00	11.00	16.36	1854.17	0.25
		4-7	21.00	331.27	163.12	151.52	150.97	550.00	179.75	0.18	3059.81	21.00	21.00	14.66	3059.81	0.37
										AVG =	**2113.29**	23.00	0.00	2.73	3059.81	0.07
6.06	in/hr	avg									2113.29			**Total Solids Lost:**		**1.37**
10-Aug-12		6-1	3.00	339.78	170.70	150.60	149.98	620.00	189.18	0.19	3277.30	3.00	10.00	4.09	3277.30	0.11
		6-2	6.00	336.04	168.24	151.35	150.73	620.00	184.69	0.18	3356.98	6.00	9.00	18.31	3356.98	0.51
		6-3	9.00	331.63	159.04	148.42	147.87	550.00	183.21	0.18	3002.02	9.00	8.00	21.22	3002.02	0.53
		6-4	12.00	297.22	163.42	150.33	149.83	500.00	146.89	0.15	3403.91	12.00	6.00	24.73	3403.91	0.70
		6-5	15.00	325.15	163.58	150.21	149.63	580.00	174.94	0.17	3315.42	15.00	6.00	30.00	3315.42	0.83
		6-6	18.00	317.87	162.81	150.24	149.53	710.00	167.63	0.17	4235.52	18.00	5.00	30.91	4235.52	1.09
		6-7	21.00	316.98	163.85	151.14	150.42	720.00	165.84	0.17	4341.53	21.00	18.00	29.21	4341.53	1.06
										AVG =	**3561.81**	30.00	0.00	6.00	4341.53	0.22
											3561.81			**Total Solids Lost:**		**5.06**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.13	in/hr	avg														
16-Aug-12		2-1	3.00	365.83	177.49	150.74	150.44	300.00	215.09	0.22	1394.76	3.00	423.97	0.77	1394.76	0.01
		2-2	6.00	327.28	156.58	147.87	147.58	290.00	179.41	0.18	1616.41	6.00	393.68	0.43	1616.41	0.01
		2-3	9.00	372.63	168.02	150.17	149.86	310.00	222.46	0.22	1393.51	9.00	105.99	1.11	1393.51	0.01
		2-4	12.00	363.05	165.35	148.36	148.01	350.00	214.69	0.21	1630.26	12.00	60.57	2.33	1630.26	0.03
		2-5	15.00	361.76	161.41	150.71	150.39	320.00	211.05	0.21	1516.23	15.00	60.57	2.97	1516.23	0.04
		2-6	18.00	373.66	160.30	150.03	149.66	370.00	223.63	0.22	1654.52	18.00	60.57	2.97	1654.52	0.04
		2-7	21.00	364.37	160.82	150.04	149.55	490.00	214.33	0.21	2286.19	21.00	60.57	2.97	2286.19	0.06
										AVG =	**1641.70**	22.00	0.00	0.50	2286.19	0.01
4.09	in/hr	avg									1641.70			**Total Solids Lost:**		**0.20**
16-Aug-12		4-1	3.00	371.09	163.97	151.39	150.92	470.00	219.70	0.22	2139.28	3.00	12.00	3.28	2139.28	0.06
		4-2	6.00	363.83	163.65	150.06	149.71	350.00	213.77	0.21	1637.27	6.00	11.00	16.12	1637.27	0.22
		4-3	9.00	343.71	175.12	150.34	149.94	400.00	193.37	0.19	2068.57	9.00	11.00	16.36	2068.57	0.28
		4-4	12.00	360.77	180.44	149.83	149.43	400.00	210.94	0.21	1896.27	12.00	10.00	17.17	1896.27	0.27
		4-5	15.00	366.62	183.57	147.46	147.13	330.00	219.16	0.22	1505.75	15.00	10.00	18.00	1505.75	0.23
		4-6	18.00	357.63	167.39	151.43	150.91	520.00	206.20	0.21	2521.82	18.00	9.00	18.31	2521.82	0.39
		4-7	21.00	362.00	183.19	151.19	150.54	650.00	210.81	0.21	3083.35	21.00	18.00	17.78	3083.35	0.46
										AVG =	**2121.76**	23.00	0.00	3.33	3083.35	0.09
6.30	in/hr	avg									2121.76			**Total Solids Lost:**		**1.99**
16-Aug-12		6-1	3.00	367.28	166.99	151.37	150.46	910.00	215.91	0.22	4214.72	3.00	7.00	8.56	4214.72	0.30
		6-2	6.00	364.04	174.04	150.24	149.27	970.00	213.80	0.21	4536.95	6.00	7.00	25.71	4536.95	0.97
		6-3	9.00	367.58	174.54	150.33	149.44	890.00	217.25	0.22	4096.66	9.00	7.00	25.71	4096.66	0.88
		6-4	12.00	356.68	174.31	148.47	147.56	910.00	208.21	0.21	4370.59	12.00	7.00	25.71	4370.59	0.94
		6-5	15.00	312.68	165.98	151.86	150.91	950.00	160.82	0.16	5907.23	15.00	6.00	29.23	5907.23	1.44
		6-6	18.00	362.57	178.51	152.15	151.11	1040.00	210.42	0.21	4942.50	18.00	6.00	30.00	4942.50	1.24
		6-7	21.00	365.22	178.49	151.57	150.40	1170.00	213.65	0.21	5476.25	21.00	8.00	27.23	5476.25	1.24
										AVG =	**4792.13**	30.00	0.00	4.29	5476.25	0.20
											4792.13			**Total Solids Lost:**		**7.21**

8-Aug-12
Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.05 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	606	0.20	0.20	0.20	
2-2	2.00	606	0.10	0.10	0.30	
2-3	3.00	530	0.11	0.11	0.40	
2-4	4.00	515	0.11	0.11	0.52	
2-5	5.00	485	0.12	0.12	0.64	
2-6	6.00	454	0.13	0.13	0.77	
2-7	7.00	424	0.14	0.14	0.90	
2-8	8.00	348	0.16	0.16	1.06	
2-9	9.00	303	0.18	0.18	1.24	
2-10	10.00	227	0.23	0.23	1.47	
2-11	11.00	167	0.30	0.30	1.77	
2-12	12.00	167	0.36	0.36	2.13	
2-13	13.00	167	0.36	0.36	2.49	
2-14	14.00	167	0.36	0.36	2.85	
2-15	15.00	167	0.36	0.36	3.21	
2-16	16.00	167	0.36	0.36	3.57	
2-17	17.00	167	0.36	0.36	3.93	
2-18	18.00	167	0.36	0.36	4.29	
2-19	19.00	151	0.38	0.38	4.67	
2-20	20.00	151	0.40	0.40	5.07	
2-21	21.00	333	0.25	0.25	5.32	
2-end	21.00	0	0.20	0.20	5.51	
					5.51	**Total Collected Runoff (approx)**
3.98 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	45	2.64	2.64	2.64	
4-2	2	45	1.32	1.32	3.96	
4-3	3	18	1.89	1.89	5.85	
4-4	4	18	3.33	3.33	9.19	
4-5	5	18	3.33	3.33	12.52	
4-6	6	18	3.33	3.33	15.85	
4-7	7	17	3.43	3.43	19.28	
4-8	8	17	3.53	3.53	22.81	
4-9	9	17	3.53	3.53	26.34	
4-10	10	16	3.64	3.64	29.98	
4-11	11	16	3.75	3.75	33.73	
4-12	12	16	3.75	3.75	37.47	
4-13	13	16	3.75	3.75	41.22	
4-14	14	15	3.87	3.87	45.10	
4-15	15	15	4.00	4.00	49.09	
4-16	16	15	4.00	4.00	53.09	
4-17	17	15	4.00	4.00	57.09	
4-18	18	15	4.00	4.00	61.09	
4-19	19	15	4.00	4.00	65.09	
4-20	20	14	4.14	4.14	69.23	
4-21	21	26	3.00	3.00	72.23	
4-end	22.00	0	2.14	2.14	74.37	
					74.37	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	60	2.00	2.00	2.00	
6-2	2	25	1.41	1.41	3.41	
6-3	3	15	3.00	3.00	6.41	
6-4	4	9	5.00	5.00	11.41	
6-5	5	8	7.06	7.06	18.47	
6-6	6	7	8.00	8.00	26.47	
6-7	7	6	9.23	9.23	35.70	
6-8	8	6	10.00	10.00	45.70	
6-9	9	6	10.00	10.00	55.70	
6-10	10	6	10.00	10.00	65.69	
6-11	11	6	10.00	10.00	75.69	
6-12	12	6	10.00	10.00	85.69	
6-13	13	6	10.00	10.00	95.69	
6-14	14	6	10.00	10.00	105.69	
6-15	15	6	10.00	10.00	115.69	
6-16	16	6	10.00	10.00	125.69	
6-17	17	6	10.00	10.00	135.69	
6-18	18	6	10.00	10.00	145.69	
6-19	19	6	10.00	10.00	155.68	
6-20	20	6	10.00	10.00	165.68	
6-21	21	15	5.71	5.71	171.40	
6-end	30.00	0	5.00	5.00	176.40	
					176.40	**Total Collected Runoff (approx)**

10-Aug-12
Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.05 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	908	0.13	0.13	0.13	
2-2	2.00	908	0.07	0.07	0.20	
2-3	3.00	727	0.07	0.07	0.27	
2-4	4.00	560	0.09	0.09	0.36	
2-5	5.00	530	0.11	0.11	0.47	
2-6	6.00	500	0.12	0.12	0.59	
2-7	7.00	469	0.12	0.12	0.72	
2-8	8.00	439	0.13	0.13	0.85	
2-9	9.00	409	0.14	0.14	0.99	
2-10	10.00	379	0.15	0.15	1.14	
2-11	11.00	303	0.18	0.18	1.32	
2-12	12.00	121	0.28	0.28	1.60	
2-13	13.00	106	0.53	0.53	2.13	
2-14	14.00	91	0.61	0.61	2.74	
2-15	15.00	76	0.72	0.72	3.46	
2-16	16.00	76	0.79	0.79	4.25	
2-17	17.00	76	0.79	0.79	5.04	
2-18	18.00	61	0.88	0.88	5.92	
2-19	19.00	45	1.13	1.13	7.06	
2-20	20.00	45	1.32	1.32	8.38	
2-21	21.00	151	0.61	0.61	8.99	
2-end	22.00	0	0.66	0.66	9.65	
					9.65	**Total Collected Runoff (approx)**
3.98 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	227	0.53	0.53	0.53	
4-2	2	91	0.38	0.38	0.91	
4-3	3	61	0.79	0.79	1.70	
4-4	4	45	1.13	1.13	2.83	
4-5	5	34	1.51	1.51	4.34	
4-6	6	31	1.85	1.85	6.19	
4-7	7	25	2.14	2.14	8.33	
4-8	8	20	2.67	2.67	11.00	
4-9	9	18	3.16	3.16	14.15	
4-10	10	15	3.64	3.64	17.79	
4-11	11	12	4.44	4.44	22.23	
4-12	12	13	4.80	4.80	27.03	
4-13	13	12	4.80	4.80	31.83	
4-14	14	12	5.00	5.00	36.83	
4-15	15	11	5.22	5.22	42.05	
4-16	16	11	5.45	5.45	47.50	
4-17	17	11	5.45	5.45	52.96	
4-18	18	11	5.45	5.45	58.41	
4-19	19	11	5.45	5.45	63.86	
4-20	20	11	5.45	5.45	69.32	
4-21	21	21	3.75	3.75	73.07	
4-end	23	0	2.73	2.73	75.80	
					75.80	**Total Collected Runoff (approx)**
6.06 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	106	1.13	1.13	1.13	
6-2	2	45	0.79	0.79	1.92	
6-3	3	10	2.17	2.17	4.09	
6-4	4	10	6.00	6.00	10.09	
6-5	5	10	6.00	6.00	16.09	
6-6	6	9	6.32	6.32	22.40	
6-7	7	9	6.67	6.67	29.07	
6-8	8	8	7.06	7.06	36.13	
6-9	9	8	7.50	7.50	43.63	
6-10	10	8	7.50	7.50	51.13	
6-11	11	7	8.00	8.00	59.13	
6-12	12	6	9.23	9.23	68.35	
6-13	13	6	10.00	10.00	78.35	
6-14	14	6	10.00	10.00	88.35	
6-15	15	6	10.00	10.00	98.35	
6-16	16	6	10.00	10.00	108.35	
6-17	17	6	10.00	10.00	118.35	
6-18	18	5	10.91	10.91	129.26	
6-19	19	5	12.00	12.00	141.26	
6-20	20	5	12.00	12.00	153.25	
6-21	21	18	5.22	5.22	158.47	
6-end	30	0	6.00	6.00	164.47	
					164.47	**Total Collected Runoff (approx)**

16-Aug-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.13 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	273	0.44	0.44	0.44	
2-2	2.00	379	0.18	0.18	0.62	
2-3	3.00	424	0.15	0.15	0.77	
2-4	4.00	409	0.14	0.14	0.92	
2-5	5.00	439	0.14	0.14	1.06	
2-6	6.00	394	0.14	0.14	1.20	
2-7	7.00	197	0.20	0.20	1.41	
2-8	8.00	121	0.38	0.38	1.78	
2-9	9.00	106	0.53	0.53	2.31	
2-10	10.00	76	0.66	0.66	2.97	
2-11	11.00	76	0.79	0.79	3.77	
2-12	12.00	61	0.88	0.88	4.65	
2-13	13.00	61	0.99	0.99	5.64	
2-14	14.00	61	0.99	0.99	6.63	
2-15	15.00	61	0.99	0.99	7.62	
2-16	16.00	61	0.99	0.99	8.61	
2-17	17.00	61	0.99	0.99	9.60	
2-18	18.00	61	0.99	0.99	10.59	
2-19	19.00	61	0.99	0.99	11.58	
2-20	20.00	61	0.99	0.99	12.57	
2-21	21.00	61	0.99	0.99	13.56	
2-end	22.00	0	0.50	0.50	14.06	
					14.06	**Total Collected Runoff (approx)**
4.09 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	182	0.66	0.66	0.66	
4-2	2	45	0.53	0.53	1.19	
4-3	3	12	2.09	2.09	3.28	
4-4	4	11	5.22	5.22	8.50	
4-5	5	11	5.45	5.45	13.95	
4-6	6	11	5.45	5.45	19.40	
4-7	7	11	5.45	5.45	24.86	
4-8	8	11	5.45	5.45	30.31	
4-9	9	11	5.45	5.45	35.77	
4-10	10	11	5.45	5.45	41.22	
4-11	11	10	5.71	5.71	46.93	
4-12	12	10	6.00	6.00	52.93	
4-13	13	10	6.00	6.00	58.93	
4-14	14	10	6.00	6.00	64.93	
4-15	15	10	6.00	6.00	70.93	
4-16	16	10	6.00	6.00	76.93	
4-17	17	10	6.00	6.00	82.93	
4-18	18	9	6.32	6.32	89.24	
4-19	19	9	6.67	6.67	95.91	
4-20	20	9	6.67	6.67	102.58	
4-21	21	18	4.44	4.44	107.02	
4-end	23	0	3.33	3.33	110.35	
					110.35	**Total Collected Runoff (approx)**
6.30 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	121	0.99	0.99	0.99	
6-2	2	11	0.91	0.91	1.90	
6-3	3	7	6.67	6.67	8.56	
6-4	4	7	8.57	8.57	17.14	
6-5	5	7	8.57	8.57	25.71	
6-6	6	7	8.57	8.57	34.28	
6-7	7	7	8.57	8.57	42.85	
6-8	8	7	8.57	8.57	51.42	
6-9	9	7	8.57	8.57	59.99	
6-10	10	7	8.57	8.57	68.56	
6-11	11	7	8.57	8.57	77.13	
6-12	12	7	8.57	8.57	85.70	
6-13	13	6	9.23	9.23	94.93	
6-14	14	6	10.00	10.00	104.93	
6-15	15	6	10.00	10.00	114.93	
6-16	16	6	10.00	10.00	124.93	
6-17	17	6	10.00	10.00	134.92	
6-18	18	6	10.00	10.00	144.92	
6-19	19	6	10.00	10.00	154.92	
6-20	20	7	9.23	9.23	164.15	
6-21	21	8	8.00	8.00	172.15	
6-end	30	0	4.29	4.29	176.44	
					176.44	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	8-Aug-12	10-Aug-12	16-Aug-12
Avg Moisture Content:	**23.72%**	**24.10%**	**25.19%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	258.08	274.45	39.67
Wt. Of cup + dry soil, g	250.3	263.43	32.58
Wt. Of cup, g	217.12	217.12	4.26
Wt. Of dry soil, g	33.18	46.31	28.32
Wt. Of water, g	7.78	11.02	7.09
Water Content, w%	23.4%	23.8%	25.0%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	255.3	263.24	35.18
Wt. Of cup + dry soil, g	247.63	253.99	29.17
Wt. Of cup, g	216.08	216.08	4.89
Wt. Of dry soil, g	31.55	37.91	24.28
Wt. Of water, g	7.67	9.25	6.01
Water Content, w%	24.3%	24.4%	24.8%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	255.18	300.43	31.35
Wt. Of cup + dry soil, g	247.95	284.24	25.8
Wt. Of cup, g	217.07	217.08	4.27
Wt. Of dry soil, g	30.88	67.16	21.53
Wt. Of water, g	7.23	16.19	5.55
Water Content, w%	23.4%	24.1%	25.8%

Soil Loss Data

Slope No.	1	2	3
Test Date:	8-Aug-12	10-Aug-12	16-Aug-12
Total Soil Loss	**4.39**	**5.23**	**7.63**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		13.6	45.4	118.1
Sub-Sample	Wt. Of cup + wet soil, g	13.6	45.4	118.1
	Wt. Of cup + dry soil, g	13.6	45.4	118.1
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	13.6	45.4	118.1
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.030	0.100	0.260

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		345.1	376.8	749.1
Sub-Sample	Wt. Of cup + wet soil, g	345.1	376.8	749.1
	Wt. Of cup + dry soil, g	345.1	376.8	749.1
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	345.1	376.8	749.1
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.760	0.830	1.650

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		1634.4	1952.2	2596.9
Sub-Sample	Wt. Of cup + wet soil, g	1634.4	1952.2	2596.9
	Wt. Of cup + dry soil, g	1634.4	1952.2	2596.9
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	1634.4	1952.2	2596.9
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		3.600	4.300	5.720

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 11-Apr-12 | Start Rain: 7:01 AM | End Rain: 7:21 AM

Sampling interval: 0:03 | End Runoff: 7:23 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

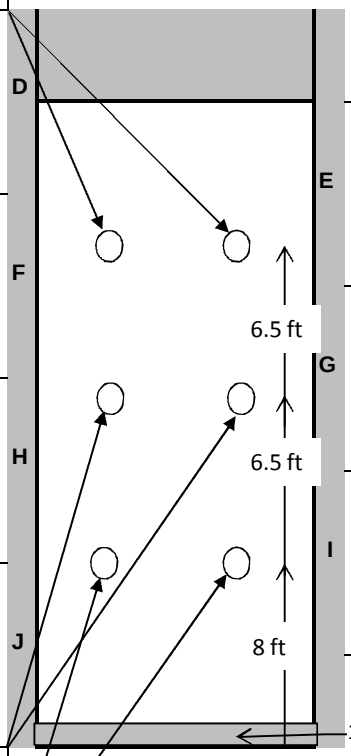
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.4%

d = 16 15 mm

i = 1.89 1.77 in/hr



x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
x						X
x	P = 9 psi	J				x
X						
x						

d = 18 15 mm

i = 2.13 1.77 in/hr

w_{c2} = 19.8%

d = 19 15 mm

i = 2.24 1.77 in/hr

w_{c3} = 20.2%

x x **X** x

P = 9 psi

Temp. 39 deg

Hum. 69 %

Average Depth: **16** **mm**

Avg Rainfall Intensity: **1.93** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:04	X	X
7:07	X	X
7:10	X	X
7:13	X	X
7:16	X	X
7:19	X	X
7:22	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	1	60
2	1	60
3	125	60
4	125	60
5	250	60
6	250	52
7	250	55
8	250	50
9	250	45
10	250	42
11	250	40
12	250	40
13	250	31
14	250	23
15	250	17
16	250	10
17	250	7
18	250	5
19	250	5
20	250	5
21	250	10
22	250	0

NOTES:
Wind: 0 mph. Direction: E
Approx 5 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 11-Apr-12 | Start Rain: 7:32 AM | End Rain: 7:52 AM

Sampling interval: 0:03 | End Runoff: 7:54 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: BSRF | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

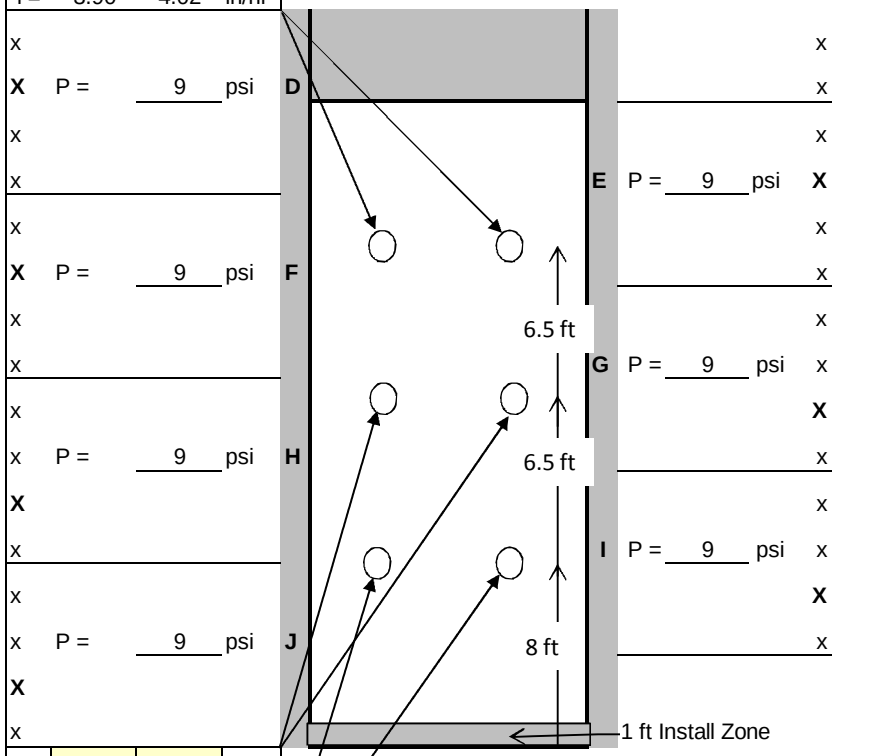
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.4%

d = 33 34 mm

i = 3.90 4.02 in/hr



d = 32 36 mm

i = 3.78 4.25 in/hr

x x **X** x

P = 9 psi

Temp. 39 deg

Hum. 69 %

w_{c2} = 19.8%

d = 34 36 mm

i = 4.02 4.25 in/hr

w_{c3} = 20.2%

Average Depth: 34 mm

Avg Rainfall Intensity: 4.04 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:35	X	X
7:38	X	X
7:41	X	X
7:44	X	X
7:47	X	X
7:50	X	X
7:53	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	21
2	3785	14
3	3785	14
4	3785	13
5	3785	13
6	3785	13
7	3785	13
8	3785	13
9	3785	12
10	3785	12
11	3785	12
12	3785	11
13	3785	12
14	3785	11
15	3785	11
16	3785	11
17	3785	10
18	3785	10
19	3785	10
20	3785	10
21	3785	10
22	3785	0

NOTES:
Wind: 0 mph. Direction: E
Approx 110 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 11-Apr-12 | Start Rain: 8:05 AM | End Rain: 8:25 AM

Sampling interval: 0:03 | End Runoff: 8:28 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: BSRF | Descr:. Control

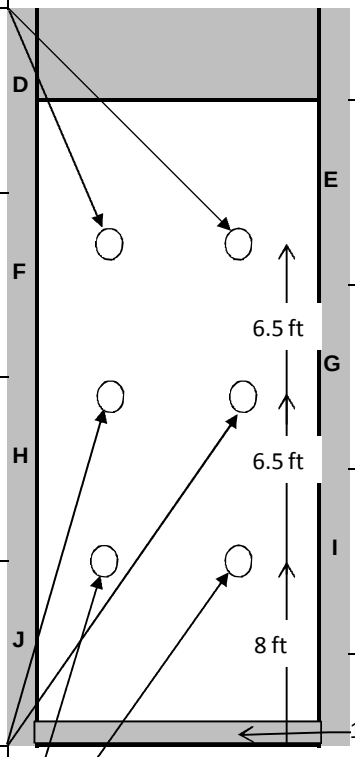
Lot #: | Posts: | Spacing:

TOP OF SLOPE

(circle "x" for open valves) **Set valves to 16 psi.**

w_{c1} = 19.4%

d =	50	49	mm
i =	5.91	5.79	in/hr



x							x
X	P =	9	psi	**D**			x
x							x
x					**E**	P = 9 psi	**X**
x							x
X	P =	9	psi	**F**			x
x							x
x					**G**	P = 9 psi	x
x							**X**
x	P =	9	psi	**H**			x
X							x
x					**I**	P = 9 psi	x
x							**X**
x	P =	9	psi	**J**			x
X							
x							

d =	49	49	mm
i =	5.79	5.79	in/hr

x x **X** x

P = 9 psi Temp. 40 deg

Hum. 69 %

w_{c2} = 19.8%

d =	53	53	mm
i =	6.26	6.26	in/hr

w_{c3} = 20.2%

Average Depth: **51** **mm**

Avg Rainfall Intensity: **5.96** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:08	X	X
8:11	X	X
8:14	X	X
8:17	X	X
8:20	X	X
8:23	X	X
8:26	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	9
2	3785	8
3	3785	7
4	3785	7
5	3785	6
6	3785	6
7	3785	6
8	3785	6
9	3785	6
10	3785	6
11	3785	6
12	3785	6
13	3785	6
14	3785	5
15	3785	5
16	3785	5
17	3785	5
18	3785	5
19	3785	5
20	3785	5
21	3785	11
23	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 220 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date: 10-Apr-12 | Start Rain: 7:48 AM | End Rain: 8:08 AM

Sampling interval: 0:03 | End Runoff: 8:10 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

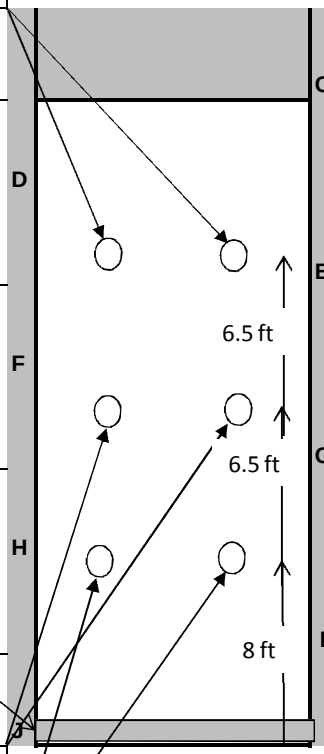
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.4%

d = 18 16 mm

i = 2.13 1.89 in/hr



				C	P = 9 psi	X
x				D	P = 9 psi	X
x				E	P = 9 psi	X
x				F	P = 9 psi	X
x				G	P = 9 psi	x
x				H	P = 9 psi	X
x				I	P = 9 psi	x
				J		x

d = 19 20 mm

i = 2.24 2.36 in/hr

w_{c2} = 19.8%

d = 15 15 mm

i = 1.77 1.77 in/hr

w_{c3} = 20.2%

x x X x

P = 9 psi

Temp. 58 deg

Hum. 61 %

Average Depth: 17 mm

Avg Rainfall Intensity: 2.03 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:51		
7:54		
7:57		
8:00	X	X
8:03	X	X
8:06	X	X
8:09	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	25	60
2	25	60
3	25	60
4	25	60
5	25	60
6	25	60
7	25	60
8	25	60
9	25	60
10	25	60
11	25	60
12	125	60
13	250	60
14	250	60
15	187	60
16	250	60
17	250	60
18	187	60
19	125	60
20	250	22
21	250	44
22	250	0

NOTES:

Wind: 0 mph. Direction: E

Approx 1 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date:	10-Apr-12	Start Rain:	8:20 AM	End Rain:	8:40 AM
		Sampling interval:	0:03	End Runoff:	8:42 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	BSRF	Descr:.	Control		
Lot #:		Posts:		Spacing:	

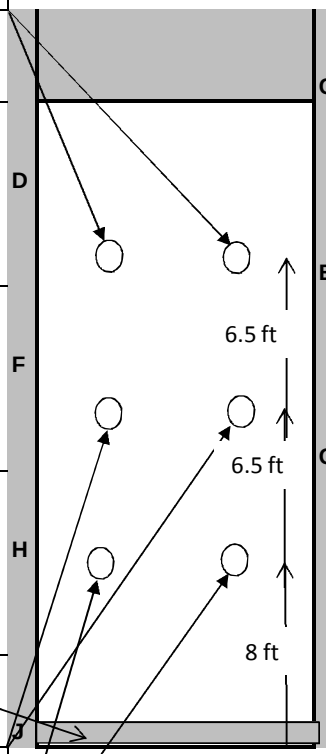
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.4%

d =	32	34	mm
i =	3.78	4.02	in/hr



					x
			C	P = 9 psi	X
x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
					X
		J			x

d =	33	35	mm
i =	3.90	4.13	in/hr

w_{c2} = 19.8%

d =	33	35	mm
i =	3.90	4.13	in/hr

w_{c3} = 20.2%

x x X x

P = 9 psi

Temp. 58 deg

Hum. 61 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **3.98** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:23	X	X
8:26	X	X
8:29	X	X
8:32	X	X
8:35	X	X
8:38	X	X
8:41	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	44
2	3785	21
3	3785	17
4	3785	15
5	3785	11
6	3785	11
7	3785	10
8	3785	11
9	3785	11
10	3785	11
11	3785	11
12	3785	10
13	3785	10
14	3785	11
15	3785	11
16	3785	10
17	3785	9
18	3785	9
19	3785	9
20	3785	9
21	3785	9
22	3785	0

NOTES:
Wind: 0 mph. Direction: E
Approx 110 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date: 10-Apr-12 | Start Rain: 8:20 AM | End Rain: 8:40 AM

Sampling interval: 0:03 | End Runoff: 8:42 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: BSRF | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

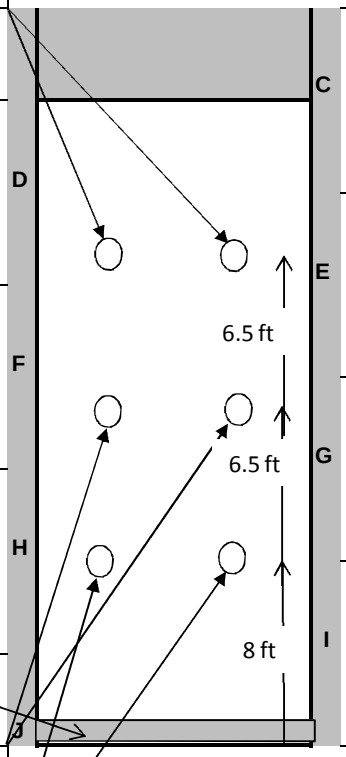
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.4%

d = 46 56 mm

i = 5.43 6.61 in/hr



x			C	P = 9 psi	X
X	P = 9 psi		D		x
x			E	P = 9 psi	X
X	P = 9 psi		F		x
x			G	P = 9 psi	x
x	P = 9 psi		H		x
x			I	P = 9 psi	x
x			J		x

d = 47 54 mm

i = 5.55 6.38 in/hr

w_{c2} = 19.8%

d = 45 54 mm

i = 5.31 6.38 in/hr

w_{c3} = 20.2%

x x **X** x

P = 9 psi

Temp. 58 deg

Hum. 61 %

Average Depth: **50** **mm**

Avg Rainfall Intensity: **5.94** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:23	X	X
8:26	X	X
8:29	X	X
8:32	X	X
8:35	X	X
8:38	X	X
8:41	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	11
2	3785	10
3	3785	10
4	3785	8
5	3785	8
6	3785	7
7	3785	7
8	3785	7
9	3785	6
10	3785	7
11	3785	6
12	3785	6
13	3785	6
14	3785	6
15	3785	6
16	3785	5
17	3785	5
18	3785	5
19	3785	5
20	3785	5
21	3785	5
22	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 220 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date: 2-May-12 | Start Rain: 7:00 AM | End Rain: 7:20 AM

Sampling interval: 0:03 | End Runoff: 7:21 AM

Rain Time (min): 20.00 | Test Time (min): 21.00

Product: | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

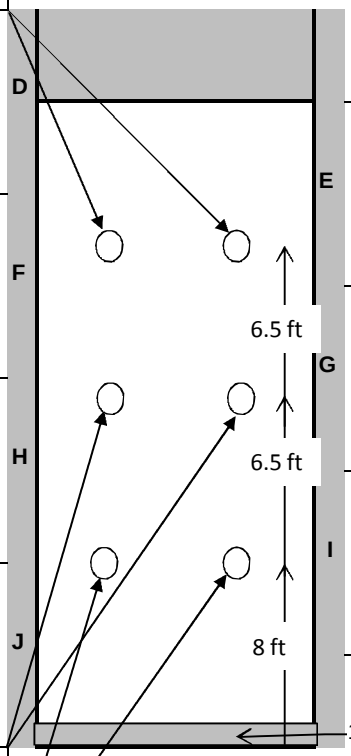
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.4%

d = 19 19 mm

i = 2.24 2.24 in/hr



x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
x						X
x	P = 9 psi	J				x
X						
x						

d = 19 18 mm

i = 2.24 2.13 in/hr

w_{c2} = 19.8%

d = 15 17 mm

i = 1.77 2.01 in/hr

w_{c3} = 20.2%

x x **X** x

P = 9 psi

Temp. 64 deg

Hum. 91 %

Average Depth: 18 mm

Avg Rainfall Intensity: 2.11 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:03	X	X
7:06	X	X
7:09	X	X
7:12	X	X
7:15	X	X
7:18	X	X
7:21	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	25	60
2	25	60
3	25	60
4	25	60
5	250	47
6	250	46
7	250	46
8	250	42
9	250	42
10	250	34
11	250	32
12	250	32
13	250	16
14	250	8
15	187	6
16	250	5
17	250	4
18	250	4
19	250	4
20	250	4
21	250	12
21	250	0

NOTES:
Wind: 0 mph. Direction: N
Approx 8 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date: 2-May-12 | Start Rain: 7:27 AM | End Rain: 7:47 AM

Sampling interval: 0:03 | End Runoff: 7:50 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

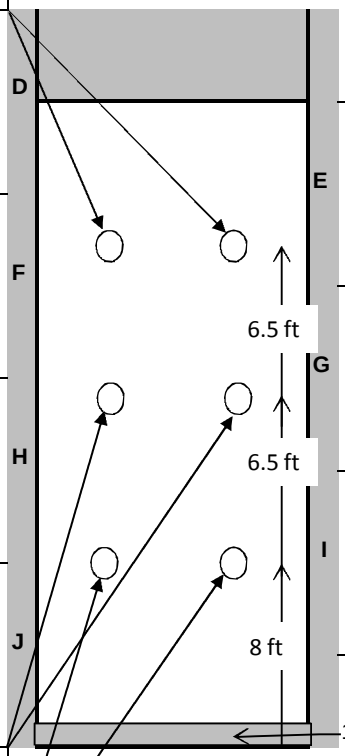
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.4%

d = 33 35 mm

i = 3.90 4.13 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 34 35 mm

i = 4.02 4.13 in/hr

w_{c2} = 19.8%

d = 33 34 mm

i = 3.90 4.02 in/hr

w_{c3} = 20.2%

x x **X** x

P = 9 psi Temp. 64 deg

Hum. 91 %

Average Depth: 34 mm

Avg Rainfall Intensity: 4.02 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:30	X	X
7:33	X	X
7:36	X	X
7:39	X	X
7:42	X	X
7:45	X	X
7:48	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	26
2	3785	17
3	3785	14
4	3785	14
5	3785	13
6	3785	13
7	3785	13
8	3785	12
9	3785	12
10	3785	12
11	3785	11
12	3785	11
13	3785	10
14	3785	10
15	3785	9
16	3785	9
17	3785	8
18	3785	8
19	3785	8
20	3785	8
21	250	7
23	3785	0

NOTES:
Wind: 0 mph. Direction: N
Approx 120 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 2-May-12 | Start Rain: 8:02 AM | End Rain: 8:22 AM

Sampling interval: 0:03 | End Runoff: 8:24 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

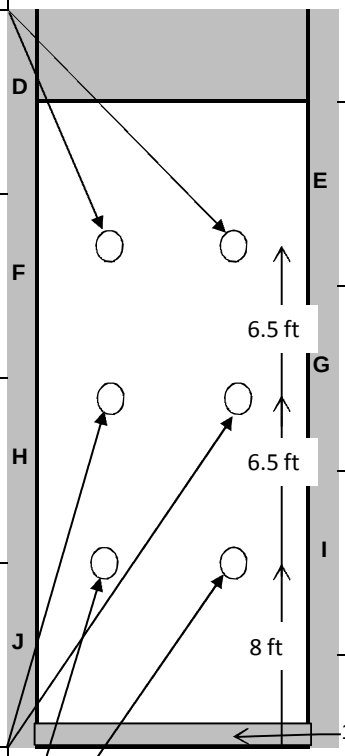
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 19.4%

d = 53 53 mm

i = 6.26 6.26 in/hr



x						x	
X	P =	9	psi	D		x	
x						x	
x					E	P = 9 psi	X
x						x	
X	P =	9	psi	F		x	
x						x	
x					G	P = 9 psi	x
x						X	
x	P =	9	psi	H		x	
X						x	
x					I	P = 9 psi	x
x						X	
x	P =	9	psi	J		x	
X							
x							

d = 50 50 mm

i = 5.91 5.91 in/hr

w_{c2} = 19.8%

d = 49 50 mm

i = 5.79 5.91 in/hr

w_{c3} = 20.2%

x x **X** x

P = 9 psi

Temp. 64 deg

Hum. 90 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:05	X	X
8:08	X	X
8:11	X	X
8:14	X	X
8:17	X	X
8:20	X	X
8:23	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	8
2	3785	8
3	3785	8
4	3785	7
5	3785	7
6	3785	7
7	3785	7
8	3785	6
9	3785	6
10	3785	6
11	3785	6
12	3785	6
13	3785	6
14	3785	6
15	3785	6
16	3785	6
17	3785	6
18	3785	5
19	3785	5
20	3785	5
21	3785	12
22	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 210 gallons collected.

GSWCC_SB Data Form - Turbidities

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	231
2	20	78.4
3	20	123

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	822	2-1	3.00		2-1	3.00	1574
2-2	6.00	584	2-2	6.00		2-2	6.00	2871
2-3	9.00	553	2-3	9.00		2-3	9.00	2748
2-4	12.00	887	2-4	12.00	360	2-4	12.00	3888
2-5	15.00	2733	2-5	15.00	392	2-5	15.00	9999
2-6	18.00	3028	2-6	18.00	307	2-6	18.00	9999
2-7	21.00	1574	2-7	21.00	3434	2-7	21.00	9999
avg		**1454**	avg		**1123**	avg		**5868**
4-1	3.00	6513	4-1	2.00	6360	4-1	2.00	9999
4-2	6.00	5324	4-2	4.00	6401	4-2	4.00	9999
4-3	9.00	6176	4-3	6.00	9999	4-3	6.00	9999
4-4	12.00	9999	4-4	8.00	9999	4-4	8.00	9999
4-5	15.00	9999	4-5	10.00	9999	4-5	10.00	9999
4-6	18.00	9999	4-6	12.00	9999	4-6	12.00	9999
4-7	21.00	3291	4-7	21.00	9999	4-7	21.00	9999
avg		**7329**	avg		**8965**	avg		**9999**
6-1	3.00	9999	6-1	3.00	9999	6-1	3.00	9999
6-2	6.00	9999	6-2	6.00	9999	6-2	6.00	9999
6-3	9.00	9999	6-3	9.00	9999	6-3	9.00	9999
6-4	12.00	9999	6-4	12.00	9999	6-4	12.00	9999
6-5	15.00	9999	6-5	15.00	9999	6-5	15.00	9999
6-6	18.00	9999	6-6	18.00	9999	6-6	18.00	9999
6-7	21.00	9999	6-7	21.00	9999	6-7	21.00	9999
avg		**9999**	avg		**9999**	avg		**9999**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
1.93	in/hr	avg														
11-Apr-12		2-1	3.00	270.81	152.83	147.77	147.25	520.00	123.04	0.12	4226.27	3.00	1817.00	0.00	4226.27	0.00
		2-2	6.00	320.20	150.16	147.98	147.09	890.00	172.22	0.17	5167.81	6.00	787.37	0.15	5167.81	0.01
		2-3	9.00	320.06	157.03	148.12	147.18	940.00	171.94	0.17	5467.02	9.00	681.37	0.23	5467.02	0.01
		2-4	12.00	313.63	156.99	147.95	147.67	280.00	165.68	0.17	1690.00	12.00	605.67	0.29	1690.00	0.00
		2-5	15.00	322.53	166.95	148.28	147.68	600.00	174.25	0.17	3443.33	15.00	257.41	0.46	3443.33	0.01
		2-6	18.00	327.61	171.23	151.47	150.61	860.00	176.14	0.18	4882.48	18.00	75.71	1.42	4882.48	0.06
		2-7	21.00	249.47	156.56	149.40	148.95	450.00	100.07	0.10	4496.85	21.00	151.42	2.11	4496.85	0.08
										AVG =	**4196.25**	22.00	0	0.40	4496.85	0.01
4.04	in/hr	avg									4196.25			**Total Solids Lost:**		**0.19**
11-Apr-12		4-1	3.00	293.63	171.89	154.30	150.74	3560.00	139.33	0.14	25550.85	3.00	14.00	13.43	25550.85	2.86
		4-2	6.00	290.11	165.19	152.03	149.65	2380.00	138.08	0.14	17236.38	6.00	13.00	13.67	17236.38	1.97
		4-3	9.00	287.35	151.29	155.26	151.29	3970.00	132.09	0.13	30055.27	9.00	12.00	14.03	30055.27	3.52
		4-4	12.00	313.79	186.97	156.51	146.12	10390.00	157.28	0.16	66060.53	12.00	11.00	15.22	66060.53	8.39
		4-5	15.00	307.15	186.05	158.76	149.60	9160.00	148.39	0.15	61729.23	15.00	11.00	15.89	61729.23	8.18
		4-6	18.00	303.45	186.91	159.73	150.39	9340.00	143.72	0.14	64987.48	18.00	10.00	17.17	64987.48	9.31
		4-7	21.00	293.15	167.38	156.93	147.36	9570.00	136.22	0.14	70254.00	21.00	10.00	18.00	70254.00	10.55
										AVG =	**47981.96**	22.00	0.00	3.00	70254.00	1.76
5.96	in/hr	avg									47981.96			**Total Solids Lost:**		**46.53**
11-Apr-12		6-1	3.00	330.30	199.16	162.74	147.94	14800.00	167.56	0.17	88326.57	3.00	7.00	28.39	88326.57	20.92
		6-2	6.00	358.03	213.67	167.65	150.64	17010.00	190.38	0.19	89347.62	6.00	6.00	27.80	89347.62	20.72
		6-3	9.00	343.85	211.51	165.19	146.62	18570.00	178.66	0.18	103940.45	9.00	6.00	30.00	103940.45	26.01
		6-4	12.00	356.84	224.29	168.51	148.88	19630.00	188.33	0.19	104231.93	12.00	6.00	30.00	104231.93	26.09
		6-5	15.00	341.69	208.50	162.51	145.53	16980.00	179.18	0.18	94765.04	15.00	5.00	32.91	94765.04	26.02
		6-6	18.00	368.20	228.03	170.60	150.02	20580.00	197.60	0.20	104149.80	18.00	5.00	36.00	104149.80	31.28
		6-7	21.00	343.26	196.91	161.15	151.04	10110.00	182.11	0.18	55515.90	21.00	11.00	31.50	55515.90	14.59
										AVG =	**91468.19**	23.00	0.00	6.00	55515.90	2.78
											91468.19			**Total Solids Lost:**		**168.41**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.03	in/hr	avg														
10-Apr-12		2-1	3.00	300.00	150.00	150.00	150.00	0.00	150.00	0.15	0.00	3.00	9084.98	0.03	0.00	0.00
		2-2	6.00	300.00	150.00	150.00	150.00	0.00	150.00	0.15	0.00	6.00	9084.98	0.02	0.00	0.00
		2-3	9.00	300.00	150.00	150.00	150.00	0.00	150.00	0.15	0.00	9.00	9084.98	0.02	0.00	0.00
		2-4	12.00	265.53	152.63	150.64	150.38	260.00	114.89	0.11	2263.03	12.00	1817.00	0.02	2263.03	0.00
		2-5	15.00	309.14	155.63	150.94	150.05	890.00	158.20	0.16	5625.79	15.00	1214.57	0.17	5625.79	0.01
		2-6	18.00	298.29	152.01	149.74	149.69	50.00	148.55	0.15	336.59	18.00	1214.57	0.18	336.59	0.00
		2-7	21.00	319.11	174.49	150.00	148.26	1740.00	169.11	0.17	10289.16	21.00	666.23	0.22	10289.16	0.02
										AVG =	**2644.94**	22.00	0.00	0.09	10289.16	0.01
3.98	in/hr	avg									2644.94			**Total Solids Lost:**		**0.04**
10-Apr-12		4-1	3.00	350.13	177.32	159.61	151.00	8610.00	190.52	0.19	45192.11	3.00	17.00	3.51	45192.11	1.32
		4-2	6.00	314.35	191.90	159.82	150.84	8980.00	154.53	0.15	58111.69	6.00	11.00	13.82	58111.69	6.70
		4-3	9.00	349.97	258.59	160.75	150.77	9980.00	189.22	0.19	52742.84	9.00	11.00	16.88	52742.84	7.43
		4-4	12.00	348.17	247.36	161.76	150.85	10910.00	186.41	0.19	58526.90	12.00	10.00	16.62	58526.90	8.12
		4-5	15.00	308.10	169.38	161.94	150.54	11400.00	146.16	0.15	77996.72	15.00	11.00	17.17	77996.72	11.17
		4-6	18.00	296.96	183.60	161.44	150.76	10680.00	135.52	0.14	78807.56	18.00	9.00	18.69	78807.56	12.29
		4-7	21.00	308.07	166.72	161.69	150.37	11320.00	146.38	0.15	77332.97	21.00	9.00	20.00	77332.97	12.90
										AVG =	**64101.54**	22.00	0.00	3.33	77332.97	2.15
5.94	in/hr	avg									64101.54			**Total Solids Lost:**		**62.09**
10-Apr-12		6-1	3.00	355.52	195.76	161.23	150.52	10710.00	194.29	0.19	55123.78	3.00	10.00	22.62	55123.78	10.40
		6-2	6.00	352.36	227.63	175.27	150.69	24580.00	177.09	0.18	138799.48	6.00	7.00	22.16	138799.48	25.67
		6-3	9.00	306.29	187.91	157.72	151.67	6050.00	148.57	0.15	40721.55	9.00	6.00	26.37	40721.55	8.96
		6-4	12.00	342.41	202.42	164.12	151.86	12260.00	178.29	0.18	68764.37	12.00	6.00	28.46	68764.37	16.33
		6-5	15.00	302.72	203.82	166.15	150.07	16080.00	136.57	0.14	117741.82	15.00	6.00	30.00	117741.82	29.47
		6-6	18.00	338.39	218.82	167.07	151.49	15580.00	171.32	0.17	90940.93	18.00	5.00	34.91	90940.93	26.48
		6-7	21.00	329.08	191.10	151.48	149.97	1510.00	177.60	0.18	8502.25	21.00	5.00	36.00	8502.25	2.55
										AVG =	**74370.60**	22.00	0.00	6.00	8502.25	0.43
											74370.60			**Total Solids Lost:**		**120.29**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.11	in/hr	avg														
2-May-12		2-1	3.00	333.92	154.94	151.95	146.77	5180.00	181.97	0.18	28466.23	3.00	9084.98	0.03	28466.23	0.01
		2-2	6.00	340.23	161.15	154.85	151.35	3500.00	185.38	0.19	18880.14	6.00	696.52	0.10	18880.14	0.02
		2-3	9.00	335.89	163.87	150.63	149.02	1610.00	185.26	0.19	8690.49	9.00	635.95	0.27	8690.49	0.02
		2-4	12.00	327.64	198.43	153.69	150.88	2810.00	173.95	0.17	16154.07	12.00	484.53	0.35	16154.07	0.05
		2-5	15.00	344.76	192.73	158.94	147.75	11190.00	185.82	0.19	60219.57	15.00	121.46	0.99	60219.57	0.50
		2-6	18.00	348.17	195.63	159.22	149.33	9890.00	188.95	0.19	52341.89	18.00	60.57	2.48	52341.89	1.08
		2-7	21.00	318.38	170.70	150.07	148.98	1090.00	168.31	0.17	6476.15	21.00	181.70	2.48	6476.15	0.13
										AVG =	**27318.36**	21.00	0.00	0.50	6476.15	0.03
4.02	in/hr	avg									27318.36			**Total Solids Lost:**		**1.83**
2-May-12		4-1	3.00	337.40	222.89	168.73	150.00	18730.00	168.67	0.17	111045.24	3.00	14.00	11.28	111045.24	0.03
		4-2	6.00	303.71	209.07	156.45	149.99	6460.00	147.26	0.15	43867.99	6.00	13.00	13.34	43867.99	4.88
		4-3	9.00	302.65	203.44	159.32	150.89	8430.00	143.33	0.14	58815.32	9.00	12.00	14.41	58815.32	7.07
		4-4	12.00	331.04	200.99	167.01	146.45	20560.00	164.03	0.16	125342.93	12.00	11.00	15.67	125342.93	16.39
		4-5	15.00	341.41	204.35	164.37	150.35	14020.00	177.04	0.18	79191.14	15.00	9.00	18.03	79191.14	11.91
		4-6	18.00	334.38	205.47	171.75	149.58	22170.00	162.63	0.16	136321.71	18.00	8.00	21.22	136321.71	24.14
		4-7	21.00	327.08	223.28	154.76	151.73	3030.00	172.32	0.17	17583.57	21.00	105.99	16.05	17583.57	2.35
										AVG =	**81738.27**	23.00	0.00	3.75	17583.57	0.55
6.00	in/hr	avg									81738.27			**Total Solids Lost:**		**67.33**
2-May-12		6-1	3.00	342.26	184.53	158.70	147.65	11050.00	183.56	0.18	60198.30	3.00	8.00	30.00	60198.30	15.07
		6-2	6.00	333.28	187.43	159.68	147.45	12230.00	173.60	0.17	70449.31	6.00	7.00	25.14	70449.31	14.78
		6-3	9.00	320.58	185.23	162.06	149.98	12080.00	158.52	0.16	76204.90	9.00	6.00	27.80	76204.90	17.67
		6-4	12.00	291.34	186.94	159.68	148.06	11620.00	131.66	0.13	88257.63	12.00	6.00	30.00	88257.63	22.09
		6-5	15.00	340.63	215.87	164.00	149.19	14810.00	176.63	0.18	83847.59	15.00	6.00	30.00	83847.59	20.98
		6-6	18.00	314.80	192.65	158.96	149.17	9790.00	155.84	0.16	62820.84	18.00	5.00	30.91	62820.84	16.20
		6-7	21.00	344.93	191.86	160.90	147.55	13350.00	184.03	0.18	72542.52	21.00	12.00	31.06	72542.52	18.80
										AVG =	**73474.44**	22.00	0.00	6.00	72542.52	3.63
											73474.44			**Total Solids Lost:**		**129.22**

11-Apr-12

Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
1.93 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	227125	0.00	0.00	0.00	
2-2	2.00	227125	0.00	0.00	0.00	
2-3	3.00	1817	0.00	0.00	0.00	
2-4	4.00	1817	0.03	0.03	0.03	
2-5	5.00	908	0.04	0.04	0.08	
2-6	6.00	787	0.07	0.07	0.15	
2-7	7.00	833	0.07	0.07	0.22	
2-8	8.00	757	0.08	0.08	0.30	
2-9	9.00	681	0.08	0.08	0.38	
2-10	10.00	636	0.09	0.09	0.47	
2-11	11.00	606	0.10	0.10	0.57	
2-12	12.00	606	0.10	0.10	0.67	
2-13	13.00	469	0.11	0.11	0.78	
2-14	14.00	348	0.15	0.15	0.93	
2-15	15.00	257	0.20	0.20	1.13	
2-16	16.00	151	0.29	0.29	1.42	
2-17	17.00	106	0.47	0.47	1.89	
2-18	18.00	76	0.66	0.66	2.55	
2-19	19.00	76	0.79	0.79	3.34	
2-20	20.00	76	0.79	0.79	4.13	
2-21	21.00	151	0.53	0.53	4.66	
2-end	22.00	0	0.40	0.40	5.06	
					5.06	**Total Collected Runoff (approx)**
4.04 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	21	5.71	5.71	5.71	
4-2	2	14	3.43	3.43	9.14	
4-3	3	14	4.29	4.29	13.43	
4-4	4	13	4.44	4.44	17.87	
4-5	5	13	4.61	4.61	22.49	
4-6	6	13	4.61	4.61	27.10	
4-7	7	13	4.61	4.61	31.72	
4-8	8	13	4.61	4.61	36.33	
4-9	9	12	4.80	4.80	41.13	
4-10	10	12	5.00	5.00	46.13	
4-11	11	12	5.00	5.00	51.13	
4-12	12	11	5.22	5.22	56.35	
4-13	13	12	5.22	5.22	61.56	
4-14	14	11	5.22	5.22	66.78	
4-15	15	11	5.45	5.45	72.23	
4-16	16	11	5.45	5.45	77.69	
4-17	17	10	5.71	5.71	83.40	
4-18	18	10	6.00	6.00	89.40	
4-19	19	10	6.00	6.00	95.40	
4-20	20	10	6.00	6.00	101.40	
4-21	21	10	6.00	6.00	107.40	
4-end	22.00	0	3.00	3.00	110.40	
					110.40	**Total Collected Runoff (approx)**
5.96 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	9	13.33	13.33	13.33	
6-2	2	8	7.06	7.06	20.39	
6-3	3	7	8.00	8.00	28.39	
6-4	4	7	8.57	8.57	36.96	
6-5	5	6	9.23	9.23	46.19	
6-6	6	6	10.00	10.00	56.19	
6-7	7	6	10.00	10.00	66.19	
6-8	8	6	10.00	10.00	76.19	
6-9	9	6	10.00	10.00	86.19	
6-10	10	6	10.00	10.00	96.18	
6-11	11	6	10.00	10.00	106.18	
6-12	12	6	10.00	10.00	116.18	
6-13	13	6	10.00	10.00	126.18	
6-14	14	5	10.91	10.91	137.09	
6-15	15	5	12.00	12.00	149.09	
6-16	16	5	12.00	12.00	161.09	
6-17	17	5	12.00	12.00	173.08	
6-18	18	5	12.00	12.00	185.08	
6-19	19	5	12.00	12.00	197.08	
6-20	20	5	12.00	12.00	209.08	
6-21	21	11	7.50	7.50	216.58	
6-end	23.00	0	6.00	6.00	222.58	
					222.58	**Total Collected Runoff (approx)**

10-Apr-12
Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.03 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	9085	0.01	0.01	0.01	
2-2	2.00	9085	0.01	0.01	0.02	
2-3	3.00	9085	0.01	0.01	0.03	
2-4	4.00	9085	0.01	0.01	0.03	
2-5	5.00	9085	0.01	0.01	0.04	
2-6	6.00	9085	0.01	0.01	0.05	
2-7	7.00	9085	0.01	0.01	0.05	
2-8	8.00	9085	0.01	0.01	0.06	
2-9	9.00	9085	0.01	0.01	0.07	
2-10	10.00	9085	0.01	0.01	0.07	
2-11	11.00	9085	0.01	0.01	0.08	
2-12	12.00	1817	0.01	0.01	0.09	
2-13	13.00	908	0.04	0.04	0.13	
2-14	14.00	908	0.07	0.07	0.20	
2-15	15.00	1215	0.06	0.06	0.26	
2-16	16.00	908	0.06	0.06	0.31	
2-17	17.00	908	0.07	0.07	0.38	
2-18	18.00	1215	0.06	0.06	0.44	
2-19	19.00	1817	0.04	0.04	0.48	
2-20	20.00	333	0.06	0.06	0.53	
2-21	21.00	666	0.12	0.12	0.65	
2-end	22.00	0	0.09	0.09	0.74	
					0.74	**Total Collected Runoff (approx)**
3.98 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	666	0.18	0.18	0.18	
4-2	2	21	0.17	0.17	0.35	
4-3	3	17	3.16	3.16	3.51	
4-4	4	15	3.75	3.75	7.26	
4-5	5	11	4.61	4.61	11.88	
4-6	6	11	5.45	5.45	17.33	
4-7	7	10	5.71	5.71	23.04	
4-8	8	11	5.71	5.71	28.76	
4-9	9	11	5.45	5.45	34.21	
4-10	10	11	5.45	5.45	39.67	
4-11	11	11	5.45	5.45	45.12	
4-12	12	10	5.71	5.71	50.83	
4-13	13	10	6.00	6.00	56.83	
4-14	14	11	5.71	5.71	62.55	
4-15	15	11	5.45	5.45	68.00	
4-16	16	10	5.71	5.71	73.71	
4-17	17	9	6.32	6.32	80.03	
4-18	18	9	6.67	6.67	86.70	
4-19	19	9	6.67	6.67	93.36	
4-20	20	9	6.67	6.67	100.03	
4-21	21	9	6.67	6.67	106.69	
4-end	22	0	3.33	3.33	110.03	
					110.03	**Total Collected Runoff (approx)**
5.94 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	11	10.91	10.91	10.91	
6-2	2	10	5.71	5.71	16.62	
6-3	3	10	6.00	6.00	22.62	
6-4	4	8	6.67	6.67	29.29	
6-5	5	8	7.50	7.50	36.79	
6-6	6	7	8.00	8.00	44.79	
6-7	7	7	8.57	8.57	53.36	
6-8	8	7	8.57	8.57	61.93	
6-9	9	6	9.23	9.23	71.16	
6-10	10	7	9.23	9.23	80.39	
6-11	11	6	9.23	9.23	89.62	
6-12	12	6	10.00	10.00	99.61	
6-13	13	6	10.00	10.00	109.61	
6-14	14	6	10.00	10.00	119.61	
6-15	15	6	10.00	10.00	129.61	
6-16	16	5	10.91	10.91	140.52	
6-17	17	5	12.00	12.00	152.52	
6-18	18	5	12.00	12.00	164.52	
6-19	19	5	12.00	12.00	176.52	
6-20	20	5	12.00	12.00	188.51	
6-21	21	5	12.00	12.00	200.51	
6-end	22	0	6.00	6.00	206.51	
					206.51	**Total Collected Runoff (approx)**

2-May-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.11 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	9085	0.01	0.01	0.01	
2-2	2.00	9085	0.01	0.01	0.02	
2-3	3.00	9085	0.01	0.01	0.03	
2-4	4.00	9085	0.01	0.01	0.03	
2-5	5.00	712	0.01	0.01	0.05	
2-6	6.00	697	0.09	0.09	0.13	
2-7	7.00	697	0.09	0.09	0.22	
2-8	8.00	636	0.09	0.09	0.31	
2-9	9.00	636	0.09	0.09	0.40	
2-10	10.00	515	0.10	0.10	0.51	
2-11	11.00	485	0.12	0.12	0.63	
2-12	12.00	485	0.12	0.12	0.75	
2-13	13.00	242	0.17	0.17	0.91	
2-14	14.00	121	0.33	0.33	1.24	
2-15	15.00	121	0.49	0.49	1.74	
2-16	16.00	76	0.61	0.61	2.35	
2-17	17.00	61	0.88	0.88	3.23	
2-18	18.00	61	0.99	0.99	4.22	
2-19	19.00	61	0.99	0.99	5.21	
2-20	20.00	61	0.99	0.99	6.20	
2-21	21.00	182	0.50	0.50	6.70	
2-end	21.00	0	0.50	0.50	7.19	
					7.19	**Total Collected Runoff (approx)**
4.02 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	26	4.61	4.61	4.61	
4-2	2	17	2.79	2.79	7.41	
4-3	3	14	3.87	3.87	11.28	
4-4	4	14	4.29	4.29	15.56	
4-5	5	13	4.44	4.44	20.01	
4-6	6	13	4.61	4.61	24.62	
4-7	7	13	4.61	4.61	29.23	
4-8	8	12	4.80	4.80	34.03	
4-9	9	12	5.00	5.00	39.03	
4-10	10	12	5.00	5.00	44.03	
4-11	11	11	5.22	5.22	49.25	
4-12	12	11	5.45	5.45	54.70	
4-13	13	10	5.71	5.71	60.42	
4-14	14	10	6.00	6.00	66.42	
4-15	15	9	6.32	6.32	72.73	
4-16	16	9	6.67	6.67	79.40	
4-17	17	8	7.06	7.06	86.46	
4-18	18	8	7.50	7.50	93.96	
4-19	19	8	7.50	7.50	101.45	
4-20	20	8	7.50	7.50	108.95	
4-21	21	106	1.05	1.05	110.01	
4-end	23	0	3.75	3.75	113.76	
					113.76	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	8	15.00	15.00	15.00	
6-2	2	8	7.50	7.50	22.50	
6-3	3	8	7.50	7.50	30.00	
6-4	4	7	8.00	8.00	38.00	
6-5	5	7	8.57	8.57	46.57	
6-6	6	7	8.57	8.57	55.14	
6-7	7	7	8.57	8.57	63.71	
6-8	8	6	9.23	9.23	72.94	
6-9	9	6	10.00	10.00	82.94	
6-10	10	6	10.00	10.00	92.93	
6-11	11	6	10.00	10.00	102.93	
6-12	12	6	10.00	10.00	112.93	
6-13	13	6	10.00	10.00	122.93	
6-14	14	6	10.00	10.00	132.93	
6-15	15	6	10.00	10.00	142.93	
6-16	16	6	10.00	10.00	152.93	
6-17	17	6	10.00	10.00	162.93	
6-18	18	5	10.91	10.91	173.84	
6-19	19	5	12.00	12.00	185.83	
6-20	20	5	12.00	12.00	197.83	
6-21	21	12	7.06	7.06	204.89	
6-end	22	0	6.00	6.00	210.89	
					210.89	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	11-Apr-12	10-Apr-12	2-May-12
Avg Moisture Content:	**19.81%**	**19.75%**	**20.27%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	272.68	96.83	243.23
Wt. Of cup + dry soil, g	263.56	86.2	238.81
Wt. Of cup, g	216.6	28.51	217.11
Wt. Of dry soil, g	46.96	57.69	21.7
Wt. Of water, g	9.12	10.63	4.42
Water Content, w%	19.4%	18.4%	20.4%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	265.2	93.93	250.2
Wt. Of cup + dry soil, g	257.18	82.94	244.67
Wt. Of cup, g	216.71	28.51	216.86
Wt. Of dry soil, g	40.47	54.43	27.81
Wt. Of water, g	8.02	10.99	5.53
Water Content, w%	19.8%	20.2%	19.9%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	266.65	112.05	252.4
Wt. Of cup + dry soil, g	258.32	97.77	246.3
Wt. Of cup, g	217.06	28.51	216.61
Wt. Of dry soil, g	41.26	69.26	29.69
Wt. Of water, g	8.33	14.28	6.1
Water Content, w%	20.2%	20.6%	20.5%

Soil Loss Data

Slope No.	1	2	3
Test Date:	11-Apr-12	10-Apr-12	2-May-12
Total Soil Loss	**212.54**	**183.02**	**196.50**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		64	8	998.8
Sub-Sample	Wt. Of cup + wet soil, g	64	8	998.8
	Wt. Of cup + dry soil, g	64	8	998.8
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	64	8	998.8
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		0.141	0.018	2.200

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		20793	29056	30645
Sub-Sample	Wt. Of cup + wet soil, g	20793	29056	30645
	Wt. Of cup + dry soil, g	20793	29056	30645
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	20793	29056	30645
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		45.800	64.000	67.500

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		75636	54026	57567
Sub-Sample	Wt. Of cup + wet soil, g	75636	54026	57567
	Wt. Of cup + dry soil, g	75636	54026	57567
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	75636	54026	57567
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		166.599	119.000	126.800

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 21-May-12 | Start Rain: 7:13 AM | End Rain: 7:33 AM

Sampling interval: 0:03 | End Runoff: 7:35 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

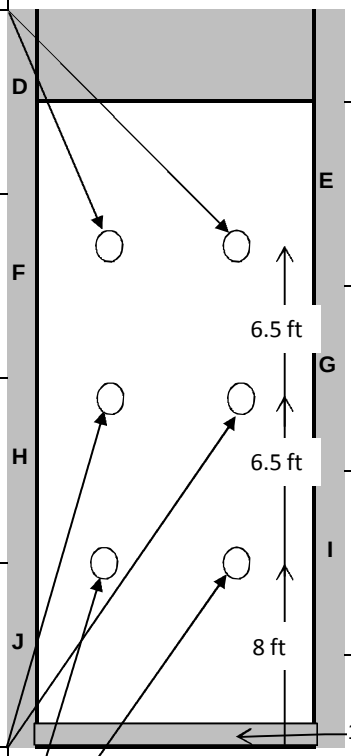
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.6%

d = 16 17 mm

i = 1.89 2.01 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 18 19 mm

i = 2.13 2.24 in/hr

w_{c2} = 22.6%

d = 19 21 mm

i = 2.24 2.48 in/hr

w_{c3} = 23.0%

x x **X** x

P = 9 psi

Temp. 59 deg

Hum. 84 %

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.17** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:16	X	X
7:19	X	X
7:22	X	X
7:25	X	X
7:28	X	X
7:31	X	X
7:34	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	40
2	250	40
3	250	40
4	250	35
5	250	35
6	250	30
7	250	30
8	250	30
9	250	25
10	250	20
11	250	15
12	250	6
13	250	4
14	250	4
15	250	3
16	250	3
17	250	3
18	250	2
19	250	2
20	250	2
21	250	10
22	250	0

NOTES: (Slope G2)

Wind: 0 mph. Direction: E

Approx 15 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 21-May-12 | Start Rain: 7:45 AM | End Rain: 8:05 AM

Sampling interval: 0:03 | End Runoff: 8:07 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

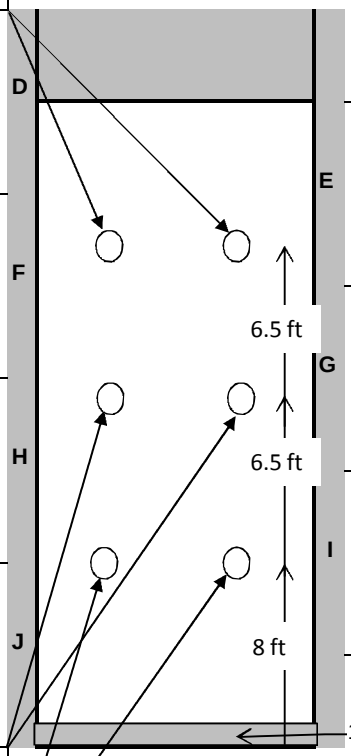
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.6%

d = 33 32 mm

i = 3.90 3.78 in/hr



x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
x						X
x	P = 9 psi	J				x
X						
x						

d = 37 35 mm

i = 4.37 4.13 in/hr

x x **X** x

P = 9 psi

Temp. 62 deg

Hum. 82 %

w_{c2} = 22.6%

d = 34 32 mm

i = 4.02 3.78 in/hr

w_{c3} = 23.0%

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:48	X	X
7:51	X	X
7:54	X	X
7:57	X	X
8:00	X	X
8:03	X	X
8:06	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	18
2	3785	17
3	3785	17
4	3785	15
5	3785	13
6	3785	14
7	3785	13
8	3785	13
9	3785	13
10	3785	13
11	3785	13
12	3785	12
13	3785	12
14	3785	12
15	3785	12
16	3785	12
17	3785	12
18	3785	11
19	3785	11
20	3785	11
21	3785	21
22	3785	0

NOTES:
Wind: 0 mph. Direction: E
Approx 100 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 21-May-12 | Start Rain: 8:19 AM | End Rain: 8:39 AM

Sampling interval: 0:03 | End Runoff: 8:41 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

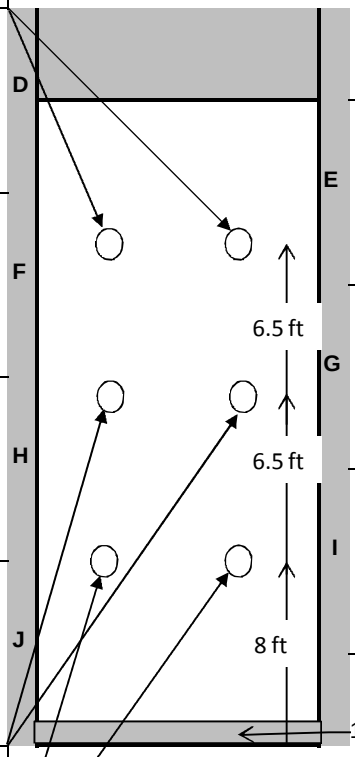
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.6%

d = 53 50 mm

i = 6.26 5.91 in/hr



x						x	
X	P =	9	psi	D		x	
x						x	
x					E	P = 9 psi	X
x						x	
X	P =	9	psi	F		x	
x						x	
x					G	P = 9 psi	x
x							X
x	P =	9	psi	H		x	
X						x	
x					I	P = 9 psi	x
x							X
x	P =	9	psi	J		x	
X							
x							

d = 51 50 mm

i = 6.02 5.91 in/hr

w_{c2} = 22.6%

d = 50 51 mm

i = 5.91 6.02 in/hr

w_{c3} = 23.0%

x x **X** x

P = 9 psi

Temp. 67 deg

Hum. 73 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:22	X	X
8:25	X	X
8:28	X	X
8:31	X	X
8:34	X	X
8:37	X	X
8:40	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	9
2	3785	6
3	3785	6
4	3785	6
5	3785	6
6	3785	6
7	3785	6
8	3785	6
9	3785	6
10	3785	6
11	3785	6
12	3785	6
13	3785	6
14	3785	6
15	3785	6
16	3785	6
17	3785	6
18	3785	6
19	3785	6
20	3785	6
21	3785	13
22	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 210 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date: 10-May-12 | Start Rain: 7:15 AM | End Rain: 7:35 AM

Sampling interval: 0:03 | End Runoff: 7:36 AM

Rain Time (min): 20.00 | Test Time (min): 21.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

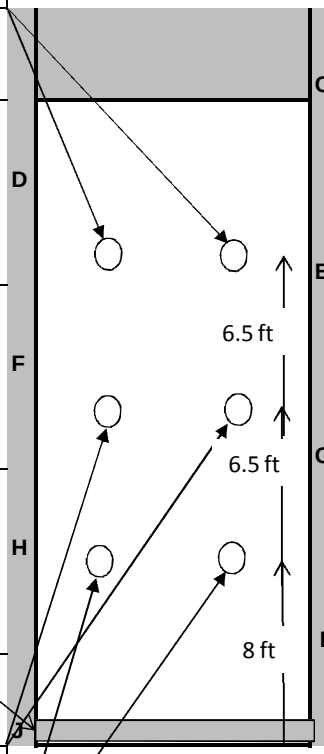
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.6%

d = 18 19 mm

i = 2.13 2.24 in/hr



x x x x x x x x x

X P = 9 psi D

x x x

x P = 9 psi F

x x x

x P = 9 psi H

X x x

C P = 9 psi X

E P = 9 psi X

G P = 9 psi x

I P = 9 psi x

x x x x x x x x x

d = 19 20 mm

i = 2.24 2.36 in/hr

w_{c2} = 22.6%

d = 14 19 mm

i = 1.65 2.24 in/hr

w_{c3} = 23.0%

x x **X** x

P = 9 psi

Temp. 53 deg

Hum. 93 %

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.15** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:18		
7:21		
7:24		
7:27	X	X
7:30	X	X
7:33	X	X
7:36	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	50
2	250	49
3	250	48
4	250	52
5	250	49
6	250	50
7	250	48
8	250	35
9	250	17
10	250	12
11	250	10
12	250	7
13	250	6
14	250	5
15	250	5
16	3785	40
17	3785	29
18	3785	22
19	3785	22
20	3785	20
21	250	0
21	250	0

NOTES:

Wind: 0 mph. Direction: N

Approx 22 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 10-May-12 | Start Rain: 7:45 AM | End Rain: 8:05 AM

Sampling interval: 0:03 | End Runoff: 8:09 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

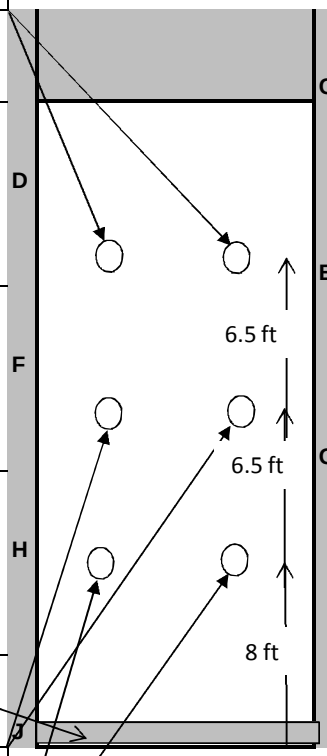
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.6%

d = 32 33 mm

i = 3.78 3.90 in/hr



						C	P = 9 psi	X
x								x
X	P = 9 psi	D						x
x								x
x						E	P = 9 psi	X
x								x
X	P = 9 psi	F						x
x								x
x						G	P = 9 psi	x
x								X
x	P = 9 psi	H						x
X								x
x						I	P = 9 psi	x
								X
								x

d = 34 35 mm

i = 4.02 4.13 in/hr

x x **X** x

P = 9 psi

Temp. 53 deg

Hum. 93 %

w_{c2} = 22.6%

d = 30 35 mm

i = 3.54 4.13 in/hr

w_{c3} = 23.0%

Average Depth: **33** **mm**

Avg Rainfall Intensity: **3.92** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:48	X	X
7:51	X	X
7:54	X	X
7:57	X	X
8:00	X	X
8:03	X	X
8:06	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	30
2	3785	19
3	3785	16
4	3785	14
5	3785	13
6	3785	13
7	3785	13
8	3785	13
9	3785	13
10	3785	13
11	3785	13
12	3785	12
13	3785	12
14	3785	13
15	3785	13
16	3785	12
17	3785	12
18	3785	12
19	3785	12
20	3785	12
21	3785	23
24	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 95 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date: 10-May-12 | Start Rain: 8:17 AM | End Rain: 8:37 AM

Sampling interval: 0:03 | End Runoff: 8:40 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

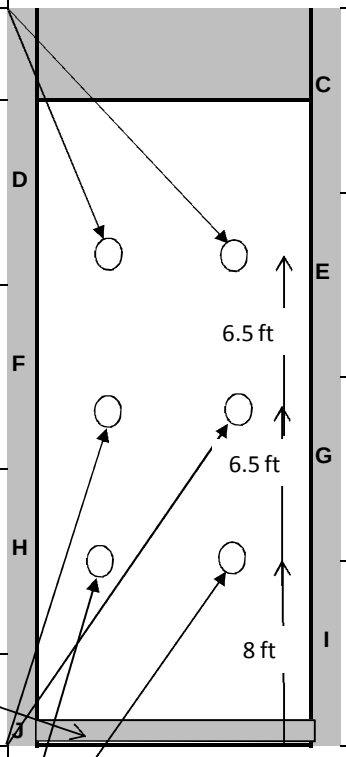
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.6%

d = 55 54 mm

i = 6.50 6.38 in/hr



				C	P = 9 psi	X
x				D		x
X	P = 9 psi					x
x				E	P = 9 psi	X
x				F		x
X	P = 9 psi					x
x				G	P = 9 psi	x
x				H		X
x	P = 9 psi					x
X				I	P = 9 psi	x
x						X
				J		x

d = 53 52 mm

i = 6.26 6.14 in/hr

w_{c2} = 22.6%

d = 50 49 mm

i = 5.91 5.79 in/hr

w_{c3} = 23.0%

x x **X** x

P = 9 psi

Temp. 56 deg

Hum. 91 %

Average Depth: **52** **mm**

Avg Rainfall Intensity: **6.16** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:20	X	X
8:23	X	X
8:26	X	X
8:29	X	X
8:32	X	X
8:35	X	X
8:38	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	12
2	3785	11
3	3785	9
4	3785	8
5	3785	7
6	3785	6
7	3785	7
8	3785	6
9	3785	6
10	3785	6
11	3785	5
12	3785	6
13	3785	5
14	3785	5
15	3785	5
16	3785	5
17	3785	5
18	3785	4
19	3785	4
20	3785	4
21	3785	8
23	3785	0

NOTES:

Wind: 0 mph. Direction: E

Approx 225 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date: 22-May-12 | Start Rain: 7:01 AM | End Rain: 7:21 AM

Sampling interval: 0:03 | End Runoff: 7:23 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

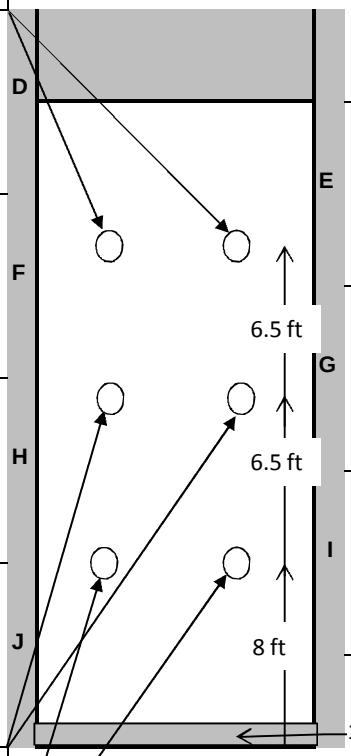
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.6%

d = 20 15 mm

i = 2.36 1.77 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 20 19 mm

i = 2.36 2.24 in/hr

w_{c2} = 22.6%

d = 16 15 mm

i = 1.89 1.77 in/hr

w_{c3} = 23.0%

x x **X** x

P = 9 psi

Temp. 63 deg

Hum. 93 %

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.07** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:04	X	X
7:07	X	X
7:10	X	X
7:13	X	X
7:16	X	X
7:19	X	X
7:22	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	60
2	250	45
3	250	43
4	250	24
5	250	14
6	250	13
7	250	6
8	250	5
9	250	4
10	250	3
11	250	2
12	250	3
13	250	2
14	250	2
15	250	2
16	250	2
17	250	3
18	250	2
19	250	2
20	250	2
21	250	12
22	250	0

NOTES:
Wind: 0 mph. Direction: W
Approx 25 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date:	22-May-12	Start Rain:	7:37 AM	End Rain:	7:57 AM
		Sampling interval:	0:03	End Runoff:	8:00 AM
		Rain Time (min):	20.00	Test Time (min):	23.00
Product:	none	Descr:.	Control		
Lot #:		Posts:		Spacing:	

TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.6%

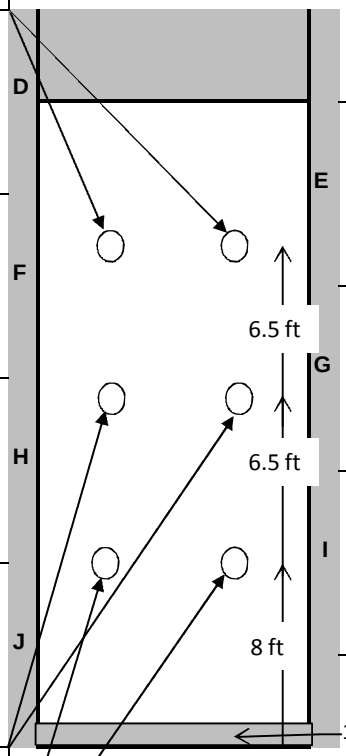
d =	35	30	mm
i =	4.13	3.54	in/hr

x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
x P = 9 psi **J**
X
x



x
x
x
E P = 9 psi **X**
x
x
x
G P = 9 psi x
X
x
x
I P = 9 psi x
X
x

x x **X** x

P = 9 psi

Temp. 63 deg

Hum. 93 %

d =	34	31	mm
i =	4.02	3.66	in/hr

w_{c2} = 22.6%

d =	36	37	mm
i =	4.25	4.37	in/hr

w_{c3} = 23.0%

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:40	X	X
7:43	X	X
7:46	X	X
7:49	X	X
7:52	X	X
7:55	X	X
7:58	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	19
2	3785	17
3	3785	14
4	3785	13
5	3785	12
6	3785	12
7	3785	12
8	3785	12
9	3785	11
10	3785	11
11	3785	11
12	3785	11
13	3785	11
14	3785	11
15	3785	10
16	3785	10
17	3785	10
18	3785	10
19	3785	9
20	3785	9
21	3785	15
23	3785	0

NOTES:
Wind: 0 mph. Direction: W
Approx 115 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 22-May-12 | Start Rain: 8:03 AM | End Rain: 8:23 AM

Sampling interval: 0:03 | End Runoff: 8:27 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

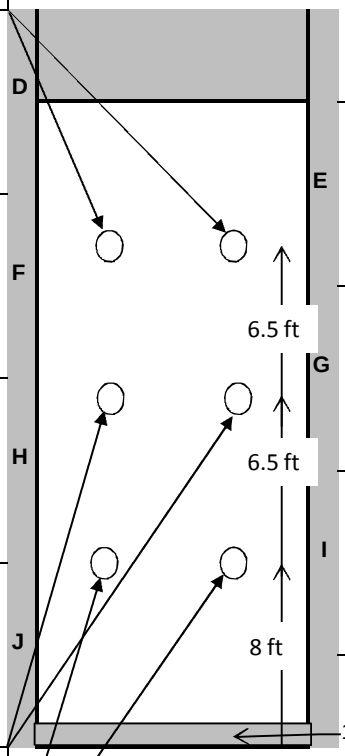
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 22.6%

d = 52 50 mm

i = 6.14 5.91 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 50 50 mm

i = 5.91 5.91 in/hr

w_{c2} = 22.6%

d = 52 54 mm

i = 6.14 6.38 in/hr

w_{c3} = 23.0%

x x **X** x

P = 9 psi

Temp. 63 deg

Hum. 93 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.06** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:06	X	X
8:09	X	X
8:12	X	X
8:15	X	X
8:18	X	X
8:21	X	X
8:24	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	17
2	3785	6
3	3785	6
4	3785	6
5	3785	7
6	3785	6
7	3785	7
8	3785	6
9	3785	6
10	3785	6
11	3785	6
12	3785	6
13	3785	6
14	3785	6
15	3785	6
16	3785	6
17	3785	6
18	3785	5
19	3785	5
20	3785	5
21	3785	12
24	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 205 gallons collected.

GSWCC_SB Data Form - Turbidities

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	164
2	20	218
3	20	98

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	498	2-1	3.00	748	2-1	3.00	467
2-2	6.00	678	2-2	6.00	525	2-2	6.00	638
2-3	9.00	667	2-3	9.00	9999	2-3	9.00	654
2-4	12.00	9999	2-4	12.00	9999	2-4	12.00	9999
2-5	15.00	9999	2-5	15.00	9999	2-5	15.00	9999
2-6	18.00	9999	2-6	18.00	9999	2-6	18.00	9999
2-7	21.00	9999	2-7	21.00	9999	2-7	21.00	9999
avg		**5977**	avg		**7324**	avg		**5965**
4-1	3.00	9999	4-1	2.00	9999	4-1	2.00	9999
4-2	6.00	9999	4-2	4.00	9999	4-2	4.00	9999
4-3	9.00	9999	4-3	6.00	9999	4-3	6.00	9999
4-4	12.00	9999	4-4	8.00	9999	4-4	8.00	9999
4-5	15.00	9999	4-5	10.00	9999	4-5	10.00	9999
4-6	18.00	9999	4-6	12.00	9999	4-6	12.00	9999
4-7	21.00	9999	4-7	21.00	9999	4-7	21.00	9999
avg		**9999**	avg		**9999**	avg		**9999**
6-1	3.00	9999	6-1	3.00	9999	6-1	3.00	9999
6-2	6.00	9999	6-2	6.00	9999	6-2	6.00	9999
6-3	9.00	9999	6-3	9.00	9999	6-3	9.00	9999
6-4	12.00	9999	6-4	12.00	9999	6-4	12.00	9999
6-5	15.00	9999	6-5	15.00	9999	6-5	15.00	9999
6-6	18.00	9999	6-6	18.00	9999	6-6	18.00	9999
6-7	21.00	9999	6-7	21.00	9999	6-7	21.00	9999
avg		**9999**	avg		**9999**	avg		**9999**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.17	in/hr	avg														
21-May-12		2-1	3.00	327.72	147.20	147.20	147.20	0.00	180.52	0.18	0.00	3.00	605.67	0.40	0.00	0.00
		2-2	6.00	353.15	169.01	151.29	150.12	1170.00	201.86	0.20	5796.10	6.00	454.25	0.34	5796.10	0.02
		2-3	9.00	366.54	233.20	150.60	147.71	2890.00	215.94	0.22	13383.35	9.00	378.54	0.41	13383.35	0.05
		2-4	12.00	322.50	176.89	152.34	148.99	3350.00	170.16	0.17	19687.35	12.00	90.85	0.78	19687.35	0.13
		2-5	15.00	349.19	165.33	152.68	147.78	4900.00	196.51	0.20	24935.12	15.00	45.42	2.92	24935.12	0.61
		2-6	18.00	345.07	171.89	153.01	148.14	4870.00	192.06	0.19	25356.66	18.00	30.28	4.23	25356.66	0.89
		2-7	21.00	346.22	166.98	154.46	149.33	5130.00	191.76	0.19	26752.19	21.00	151.42	4.62	26752.19	1.03
										AVG =	**16558.68**	22.00	0	0.99	26752.19	0.22
4.00	in/hr	avg									16558.68			**Total Solids Lost:**		**2.94**
21-May-12		4-1	3.00	283.47	160.81	152.12	148.79	3330.00	131.35	0.13	25352.11	3.00	17.00	13.62	25352.11	2.88
		4-2	6.00	325.29	166.72	154.31	149.26	5050.00	170.98	0.17	29535.62	6.00	14.00	12.48	29535.62	3.08
		4-3	9.00	311.74	170.38	155.80	148.67	7130.00	155.94	0.16	45722.71	9.00	13.00	13.67	45722.71	5.22
		4-4	12.00	309.74	170.39	157.49	149.51	7980.00	152.25	0.15	52413.79	12.00	12.00	14.03	52413.79	6.14
		4-5	15.00	286.88	168.39	156.60	147.14	9460.00	130.28	0.13	72612.83	15.00	12.00	15.00	72612.83	9.09
		4-6	18.00	303.79	168.29	159.16	150.33	8830.00	144.63	0.14	61052.34	18.00	11.00	15.22	61052.34	7.75
		4-7	21.00	277.30	158.02	158.57	148.61	9960.00	118.73	0.12	83887.81	21.00	21.00	14.66	83887.81	10.26
										AVG =	**52939.60**	22.00	0.00	2.73	83887.81	1.91
6.00	in/hr	avg									52939.60			**Total Solids Lost:**		**46.31**
21-May-12		6-1	3.00	315.74	175.17	153.09	149.92	3170.00	162.65	0.16	19489.70	3.00	6.00	31.33	19489.70	5.09
		6-2	6.00	340.22	170.74	153.68	146.79	6890.00	186.54	0.19	36935.78	6.00	6.00	30.00	36935.78	9.24
		6-3	9.00	314.91	185.63	158.80	150.97	7830.00	156.11	0.16	50156.94	9.00	6.00	30.00	50156.94	12.55
		6-4	12.00	313.52	183.95	159.91	147.47	12440.00	153.61	0.15	80984.31	12.00	6.00	30.00	80984.31	20.27
		6-5	15.00	327.46	180.17	161.47	147.50	13970.00	165.99	0.17	84161.70	15.00	6.00	30.00	84161.70	21.06
		6-6	18.00	329.52	184.06	166.99	151.52	15470.00	162.53	0.16	95182.43	18.00	6.00	30.00	95182.43	23.82
		6-7	21.00	323.08	188.72	167.94	150.23	17710.00	155.14	0.16	114154.96	21.00	13.00	26.31	114154.96	25.06
										AVG =	**68723.69**	22.00	0.00	5.00	114154.96	4.76
											68723.69			**Total Solids Lost:**		**121.87**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.15	in/hr	avg														
10-May-12		2-1	3.00	320.65	162.73	150.71	146.79	3920.00	169.94	0.17	23066.96	3.00	726.80	0.32	23066.96	0.06
		2-2	6.00	330.56	171.55	152.66	151.53	1130.00	177.90	0.18	6351.88	6.00	757.08	0.24	6351.88	0.01
		2-3	9.00	349.26	186.33	150.04	149.67	370.00	199.22	0.20	1857.24	9.00	257.41	0.33	1857.24	0.01
		2-4	12.00	370.11	211.05	151.54	150.88	660.00	218.57	0.22	3019.63	12.00	105.99	1.10	3019.63	0.03
		2-5	15.00	368.08	202.35	151.37	149.21	2160.00	216.71	0.22	9967.24	15.00	75.71	2.12	9967.24	0.18
		2-6	18.00	316.13	207.66	152.84	147.75	5090.00	163.29	0.16	31171.54	18.00	22.00	5.13	31171.54	1.33
		2-7	21.00	354.87	205.54	152.82	148.73	4090.00	202.05	0.20	20242.51	21.00	0.00	11.58	20242.51	1.96
										AVG =	**13668.14**	21.00	0.00	1.50	20242.51	0.25
3.92	in/hr	avg									13668.14			**Total Solids Lost:**		**3.83**
10-May-12		4-1	3.00	365.86	230.60	152.12	150.60	1520.00	213.74	0.21	7111.44	3.00	16.00	9.88	7111.44	0.59
		4-2	6.00	350.38	226.75	159.11	147.99	11120.00	191.27	0.19	58137.71	6.00	13.00	13.06	58137.71	6.33
		4-3	9.00	362.14	224.54	160.99	150.89	10100.00	201.15	0.20	50211.29	9.00	13.00	13.84	50211.29	5.80
		4-4	12.00	366.12	201.12	160.49	146.45	14040.00	205.63	0.21	68277.98	12.00	12.00	14.03	68277.98	7.99
		4-5	15.00	316.00	190.82	162.92	149.58	13340.00	153.08	0.15	87143.98	15.00	13.00	14.41	87143.98	10.48
		4-6	18.00	362.08	208.04	166.88	151.98	14900.00	195.20	0.20	76331.97	18.00	12.00	14.80	76331.97	9.42
		4-7	21.00	341.26	206.33	165.56	147.65	17910.00	175.70	0.18	101935.12	21.00	23.00	13.43	101935.12	11.42
										AVG =	**64164.21**	24.00	0.00	2.50	101935.12	2.13
6.16	in/hr	avg									64164.21			**Total Solids Lost:**		**54.16**
10-May-12		6-1	3.00	347.33	191.25	158.81	150.38	8430.00	188.52	0.19	44716.74	3.00	9.00	21.22	44716.74	7.92
		6-2	6.00	362.99	205.60	160.66	147.45	13210.00	202.33	0.20	65289.38	6.00	6.00	24.29	65289.38	13.23
		6-3	9.00	345.73	210.80	162.65	149.63	13020.00	183.08	0.18	71116.45	9.00	6.00	28.46	71116.45	16.89
		6-4	12.00	341.62	216.95	161.94	148.06	13880.00	179.68	0.18	77248.44	12.00	6.00	31.81	77248.44	20.50
		6-5	15.00	360.39	204.56	163.64	149.17	14470.00	196.75	0.20	73545.11	15.00	5.00	34.91	73545.11	21.42
		6-6	18.00	356.25	204.43	164.32	150.06	14260.00	191.93	0.19	74297.92	18.00	4.00	37.33	74297.92	23.14
		6-7	21.00	344.17	194.83	160.01	147.44	12570.00	184.16	0.18	68255.86	21.00	8.00	40.00	68255.86	22.78
										AVG =	**67781.42**	23.00	0.00	7.50	68255.86	4.27
											67781.42			**Total Solids Lost:**		**130.14**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.07	in/hr	avg														
22-May-12		2-1	3.00	286.12	186.89	147.12	146.79	330.00	139.00	0.14	2374.10	3.00	651.09	0.30	2374.10	0.01
		2-2	6.00	316.23	176.06	151.52	151.50	20.00	164.71	0.16	121.43	6.00	196.84	0.62	121.43	0.00
		2-3	9.00	319.93	175.56	150.41	149.02	1390.00	169.52	0.17	8199.62	9.00	60.57	2.02	8199.62	0.14
		2-4	12.00	363.07	194.34	151.39	150.88	510.00	211.68	0.21	2409.30	12.00	45.42	4.30	2409.30	0.09
		2-5	15.00	356.95	194.06	149.02	147.75	1270.00	207.93	0.21	6107.82	15.00	30.28	5.55	6107.82	0.28
		2-6	18.00	367.31	196.40	151.91	149.21	2700.00	215.40	0.22	12534.82	18.00	30.28	5.15	12534.82	0.54
		2-7	21.00	285.92	185.10	151.73	148.98	2750.00	134.19	0.13	20493.33	21.00	181.70	4.53	20493.33	0.77
										AVG =	**7462.92**	22.00	0.00	0.99	20493.33	0.17
4.00	in/hr	avg									7462.92			**Total Solids Lost:**		**2.00**
22-May-12		4-1	3.00	309.70	198.31	160.73	150.60	10130.00	148.97	0.15	68000.27	3.00	14.00	13.52	68000.27	0.17
		4-2	6.00	347.64	198.49	161.28	149.99	11290.00	186.36	0.19	60581.67	6.00	12.00	14.24	60581.67	7.20
		4-3	9.00	320.67	209.75	160.97	150.89	10080.00	159.70	0.16	63118.35	9.00	11.00	15.22	63118.35	8.01
		4-4	12.00	323.74	204.73	158.23	146.45	11780.00	165.51	0.17	71173.95	12.00	11.00	16.36	71173.95	9.72
		4-5	15.00	338.81	203.36	161.32	149.48	11840.00	177.49	0.18	66707.98	15.00	10.00	16.62	66707.98	9.25
		4-6	18.00	336.09	205.59	162.97	151.98	10990.00	173.12	0.17	63481.98	18.00	10.00	18.00	63481.98	9.53
		4-7	21.00	356.62	208.50	160.24	147.98	12260.00	196.38	0.20	62429.98	21.00	15.00	17.98	62429.98	9.37
										AVG =	**65070.60**	23.00	0.00	3.33	62429.98	1.74
6.06	in/hr	avg									65070.60			**Total Solids Lost:**		**54.98**
22-May-12		6-1	3.00	344.02	209.49	165.27	150.86	14410.00	178.75	0.18	80615.38	3.00	6.00	22.27	80615.38	14.98
		6-2	6.00	373.08	205.52	165.88	149.98	15900.00	207.20	0.21	76737.45	6.00	6.00	28.46	76737.45	18.22
		6-3	9.00	365.69	201.53	164.69	147.97	16720.00	201.00	0.20	83184.08	9.00	6.00	28.46	83184.08	19.75
		6-4	12.00	361.31	205.78	166.33	149.89	16440.00	194.98	0.19	84316.34	12.00	6.00	30.00	84316.34	21.10
		6-5	15.00	362.20	214.46	166.77	149.65	17120.00	195.43	0.20	87601.70	15.00	6.00	30.00	87601.70	21.92
		6-6	18.00	366.88	208.91	168.65	151.09	17560.00	198.23	0.20	88583.97	18.00	5.00	30.91	88583.97	22.84
		6-7	21.00	352.36	206.47	168.34	150.37	17970.00	184.02	0.18	97652.43	21.00	12.00	31.06	97652.43	25.30
										AVG =	**85527.34**	24.00	0.00	6.00	97652.43	4.89
											85527.34			**Total Solids Lost:**		**149.01**

21-May-12

Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.17 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	606	0.20	0.20	0.20	
2-2	2.00	606	0.10	0.10	0.30	
2-3	3.00	606	0.10	0.10	0.40	
2-4	4.00	530	0.11	0.11	0.50	
2-5	5.00	530	0.11	0.11	0.62	
2-6	6.00	454	0.12	0.12	0.74	
2-7	7.00	454	0.13	0.13	0.87	
2-8	8.00	454	0.13	0.13	1.00	
2-9	9.00	379	0.14	0.14	1.15	
2-10	10.00	303	0.18	0.18	1.32	
2-11	11.00	227	0.23	0.23	1.55	
2-12	12.00	91	0.38	0.38	1.93	
2-13	13.00	61	0.79	0.79	2.72	
2-14	14.00	61	0.99	0.99	3.71	
2-15	15.00	45	1.13	1.13	4.84	
2-16	16.00	45	1.32	1.32	6.16	
2-17	17.00	45	1.32	1.32	7.48	
2-18	18.00	30	1.59	1.59	9.07	
2-19	19.00	30	1.98	1.98	11.05	
2-20	20.00	30	1.98	1.98	13.03	
2-21	21.00	151	0.66	0.66	13.69	
2-end	22.00	0	0.99	0.99	14.68	
					14.68	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	18	6.67	6.67	6.67	
4-2	2	17	3.43	3.43	10.09	
4-3	3	17	3.53	3.53	13.62	
4-4	4	15	3.75	3.75	17.37	
4-5	5	13	4.29	4.29	21.66	
4-6	6	14	4.44	4.44	26.10	
4-7	7	13	4.44	4.44	30.55	
4-8	8	13	4.61	4.61	35.16	
4-9	9	13	4.61	4.61	39.78	
4-10	10	13	4.61	4.61	44.39	
4-11	11	13	4.61	4.61	49.01	
4-12	12	12	4.80	4.80	53.80	
4-13	13	12	5.00	5.00	58.80	
4-14	14	12	5.00	5.00	63.80	
4-15	15	12	5.00	5.00	68.80	
4-16	16	12	5.00	5.00	73.80	
4-17	17	12	5.00	5.00	78.80	
4-18	18	11	5.22	5.22	84.02	
4-19	19	11	5.45	5.45	89.47	
4-20	20	11	5.45	5.45	94.93	
4-21	21	21	3.75	3.75	98.68	
4-end	22.00	0	2.73	2.73	101.40	
					101.40	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	9	13.33	13.33	13.33	
6-2	2	6	8.00	8.00	21.33	
6-3	3	6	10.00	10.00	31.33	
6-4	4	6	10.00	10.00	41.33	
6-5	5	6	10.00	10.00	51.33	
6-6	6	6	10.00	10.00	61.33	
6-7	7	6	10.00	10.00	71.33	
6-8	8	6	10.00	10.00	81.32	
6-9	9	6	10.00	10.00	91.32	
6-10	10	6	10.00	10.00	101.32	
6-11	11	6	10.00	10.00	111.32	
6-12	12	6	10.00	10.00	121.32	
6-13	13	6	10.00	10.00	131.32	
6-14	14	6	10.00	10.00	141.32	
6-15	15	6	10.00	10.00	151.32	
6-16	16	6	10.00	10.00	161.32	
6-17	17	6	10.00	10.00	171.31	
6-18	18	6	10.00	10.00	181.31	
6-19	19	6	10.00	10.00	191.31	
6-20	20	6	10.00	10.00	201.31	
6-21	21	13	6.32	6.32	207.63	
6-end	22.00	0	5.00	5.00	212.63	
					212.63	**Total Collected Runoff (approx)**

10-May-12

Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.15 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	757	0.16	0.16	0.16	
2-2	2.00	742	0.08	0.08	0.24	
2-3	3.00	727	0.08	0.08	0.32	
2-4	4.00	787	0.08	0.08	0.40	
2-5	5.00	742	0.08	0.08	0.48	
2-6	6.00	757	0.08	0.08	0.56	
2-7	7.00	727	0.08	0.08	0.64	
2-8	8.00	530	0.10	0.10	0.73	
2-9	9.00	257	0.15	0.15	0.89	
2-10	10.00	182	0.27	0.27	1.16	
2-11	11.00	151	0.36	0.36	1.52	
2-12	12.00	106	0.47	0.47	1.99	
2-13	13.00	91	0.61	0.61	2.60	
2-14	14.00	76	0.72	0.72	3.32	
2-15	15.00	76	0.79	0.79	4.11	
2-16	16.00	40	1.04	1.04	5.15	
2-17	17.00	29	1.74	1.74	6.89	
2-18	18.00	22	2.35	2.35	9.24	
2-19	19.00	22	2.73	2.73	11.96	
2-20	20.00	20	2.86	2.86	14.82	
2-21	21.00	0	6.00	6.00	20.82	
2-end	21.00	0	1.50	1.50	22.32	
					22.32	**Total Collected Runoff (approx)**
3.92 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	30	4.00	4.00	4.00	
4-2	2	19	2.45	2.45	6.45	
4-3	3	16	3.43	3.43	9.88	
4-4	4	14	4.00	4.00	13.88	
4-5	5	13	4.44	4.44	18.32	
4-6	6	13	4.61	4.61	22.93	
4-7	7	13	4.61	4.61	27.55	
4-8	8	13	4.61	4.61	32.16	
4-9	9	13	4.61	4.61	36.78	
4-10	10	13	4.61	4.61	41.39	
4-11	11	13	4.61	4.61	46.01	
4-12	12	12	4.80	4.80	50.81	
4-13	13	12	5.00	5.00	55.81	
4-14	14	13	4.80	4.80	60.61	
4-15	15	13	4.61	4.61	65.22	
4-16	16	12	4.80	4.80	70.02	
4-17	17	12	5.00	5.00	75.02	
4-18	18	12	5.00	5.00	80.02	
4-19	19	12	5.00	5.00	85.02	
4-20	20	12	5.00	5.00	90.02	
4-21	21	23	3.43	3.43	93.45	
4-end	24	0	2.50	2.50	95.95	
					95.95	**Total Collected Runoff (approx)**
6.16 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	12	10.00	10.00	10.00	
6-2	2	11	5.22	5.22	15.22	
6-3	3	9	6.00	6.00	21.22	
6-4	4	8	7.06	7.06	28.27	
6-5	5	7	8.00	8.00	36.27	
6-6	6	6	9.23	9.23	45.50	
6-7	7	7	9.23	9.23	54.73	
6-8	8	6	9.23	9.23	63.96	
6-9	9	6	10.00	10.00	73.96	
6-10	10	6	10.00	10.00	83.96	
6-11	11	5	10.91	10.91	94.87	
6-12	12	6	10.91	10.91	105.78	
6-13	13	5	10.91	10.91	116.68	
6-14	14	5	12.00	12.00	128.68	
6-15	15	5	12.00	12.00	140.68	
6-16	16	5	12.00	12.00	152.68	
6-17	17	5	12.00	12.00	164.68	
6-18	18	4	13.33	13.33	178.01	
6-19	19	4	15.00	15.00	193.01	
6-20	20	4	15.00	15.00	208.01	
6-21	21	8	10.00	10.00	218.01	
6-end	23	0	7.50	7.50	225.50	
					225.50	**Total Collected Runoff (approx)**

22-May-12
Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.07 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	908	0.13	0.13	0.13	
2-2	2.00	681	0.08	0.08	0.21	
2-3	3.00	651	0.09	0.09	0.30	
2-4	4.00	363	0.12	0.12	0.42	
2-5	5.00	212	0.21	0.21	0.62	
2-6	6.00	197	0.29	0.29	0.92	
2-7	7.00	91	0.42	0.42	1.34	
2-8	8.00	76	0.72	0.72	2.06	
2-9	9.00	61	0.88	0.88	2.94	
2-10	10.00	45	1.13	1.13	4.07	
2-11	11.00	30	1.59	1.59	5.65	
2-12	12.00	45	1.59	1.59	7.24	
2-13	13.00	30	1.59	1.59	8.82	
2-14	14.00	30	1.98	1.98	10.80	
2-15	15.00	30	1.98	1.98	12.79	
2-16	16.00	30	1.98	1.98	14.77	
2-17	17.00	45	1.59	1.59	16.35	
2-18	18.00	30	1.59	1.59	17.94	
2-19	19.00	30	1.98	1.98	19.92	
2-20	20.00	30	1.98	1.98	21.90	
2-21	21.00	182	0.57	0.57	22.47	
2-end	22.00	0	0.99	0.99	23.46	
					23.46	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	19	6.32	6.32	6.32	
4-2	2	17	3.33	3.33	9.65	
4-3	3	14	3.87	3.87	13.52	
4-4	4	13	4.44	4.44	17.96	
4-5	5	12	4.80	4.80	22.76	
4-6	6	12	5.00	5.00	27.76	
4-7	7	12	5.00	5.00	32.76	
4-8	8	12	5.00	5.00	37.76	
4-9	9	11	5.22	5.22	42.98	
4-10	10	11	5.45	5.45	48.43	
4-11	11	11	5.45	5.45	53.89	
4-12	12	11	5.45	5.45	59.34	
4-13	13	11	5.45	5.45	64.79	
4-14	14	11	5.45	5.45	70.25	
4-15	15	10	5.71	5.71	75.96	
4-16	16	10	6.00	6.00	81.96	
4-17	17	10	6.00	6.00	87.96	
4-18	18	10	6.00	6.00	93.96	
4-19	19	9	6.32	6.32	100.27	
4-20	20	9	6.67	6.67	106.94	
4-21	21	15	5.00	5.00	111.94	
4-end	23	0	3.33	3.33	115.27	
					115.27	**Total Collected Runoff (approx)**
6.06 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	17	7.06	7.06	7.06	
6-2	2	6	5.22	5.22	12.27	
6-3	3	6	10.00	10.00	22.27	
6-4	4	6	10.00	10.00	32.27	
6-5	5	7	9.23	9.23	41.50	
6-6	6	6	9.23	9.23	50.73	
6-7	7	7	9.23	9.23	59.96	
6-8	8	6	9.23	9.23	69.19	
6-9	9	6	10.00	10.00	79.19	
6-10	10	6	10.00	10.00	89.19	
6-11	11	6	10.00	10.00	99.19	
6-12	12	6	10.00	10.00	109.19	
6-13	13	6	10.00	10.00	119.19	
6-14	14	6	10.00	10.00	129.19	
6-15	15	6	10.00	10.00	139.18	
6-16	16	6	10.00	10.00	149.18	
6-17	17	6	10.00	10.00	159.18	
6-18	18	5	10.91	10.91	170.09	
6-19	19	5	12.00	12.00	182.09	
6-20	20	5	12.00	12.00	194.09	
6-21	21	12	7.06	7.06	201.15	
6-end	24	0	6.00	6.00	207.14	
					207.14	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	21-May-12	10-May-12	22-May-12
Avg Moisture Content:	**22.71%**	**21.70%**	**22.17%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	257.98	244.71	244.66
Wt. Of cup + dry soil, g	250.47	239.98	239.94
Wt. Of cup, g	217.18	217.12	217.18
Wt. Of dry soil, g	33.29	22.86	22.76
Wt. Of water, g	7.51	4.73	4.72
Water Content, w%	22.6%	20.7%	20.7%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	258.39	250.56	251.1
Wt. Of cup + dry soil, g	250.75	244.56	244.8
Wt. Of cup, g	216.87	216.77	216.87
Wt. Of dry soil, g	33.88	27.79	27.93
Wt. Of water, g	7.64	6	6.3
Water Content, w%	22.6%	21.6%	22.6%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	251.35	252.51	250.79
Wt. Of cup + dry soil, g	244.85	245.86	244.35
Wt. Of cup, g	216.6	216.72	216.6
Wt. Of dry soil, g	28.25	29.14	27.75
Wt. Of water, g	6.5	6.65	6.44
Water Content, w%	23.0%	22.8%	23.2%

Soil Loss Data

Slope No.	1	2	3
Test Date:	21-May-12	10-May-12	22-May-12
Total Soil Loss	**173.31**	**182.90**	**204.95**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		1192.9	1389.24	903.0
Sub-Sample	Wt. Of cup + wet soil, g	1192.9	1389.24	903.0
	Wt. Of cup + dry soil, g	1192.9	1389.24	903.0
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	1192.9	1389.24	903
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		2.628	3.060	1.989

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		20714.4	24480.0	24532.86
Sub-Sample	Wt. Of cup + wet soil, g	20714.4	24480.0	24532.86
	Wt. Of cup + dry soil, g	20714.4	24480.0	24532.86
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	20714.4	24480	24532.86
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		45.626	53.921	54.037

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		56774	57168.0	67609.68
Sub-Sample	Wt. Of cup + wet soil, g	56774	57168.0	67609.68
	Wt. Of cup + dry soil, g	56774	57168.0	67609.68
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	56774	57168	67609.68
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		125.053	125.921	148.920

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 12-Jun-12 | Start Rain: 7:04 AM | End Rain: 7:24 AM

Sampling interval: 0:03 | End Runoff: 8:30 AM

Rain Time (min): 20.00 | Test Time (min): 86.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

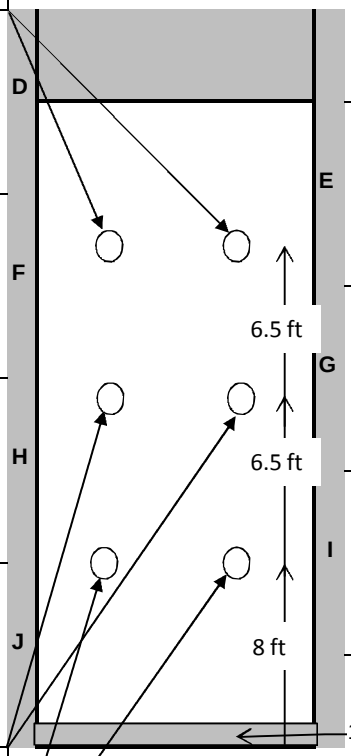
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 18 18 mm

i = 2.13 2.13 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 17 19 mm

i = 2.01 2.24 in/hr

w_{c2} = 21.2%

d = 17 19 mm

i = 2.01 2.24 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 72 deg

Hum. 95 %

Average Depth: 18 mm

Avg Rainfall Intensity: 2.13 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:07	X	X
7:10	X	X
7:13	X	X
7:16	X	X
7:19	X	X
7:22	X	X
7:25	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	6
2	250	60
3	250	60
4	250	37
5	250	25
6	250	18
7	250	14
8	250	12
9	250	12
10	250	5
11	250	5
12	250	4
13	250	3
14	250	3
15	250	2
16	250	2
17	250	2
18	250	2
19	250	2
20	250	2
21	250	10
86	250	0

NOTES: (Slope G2)

Wind: 0 mph. Direction: E

Approx 20 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 12-Jun-12 | Start Rain: 7:34 AM | End Rain: 7:54 AM

Sampling interval: 0:03 | End Runoff: 7:57 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

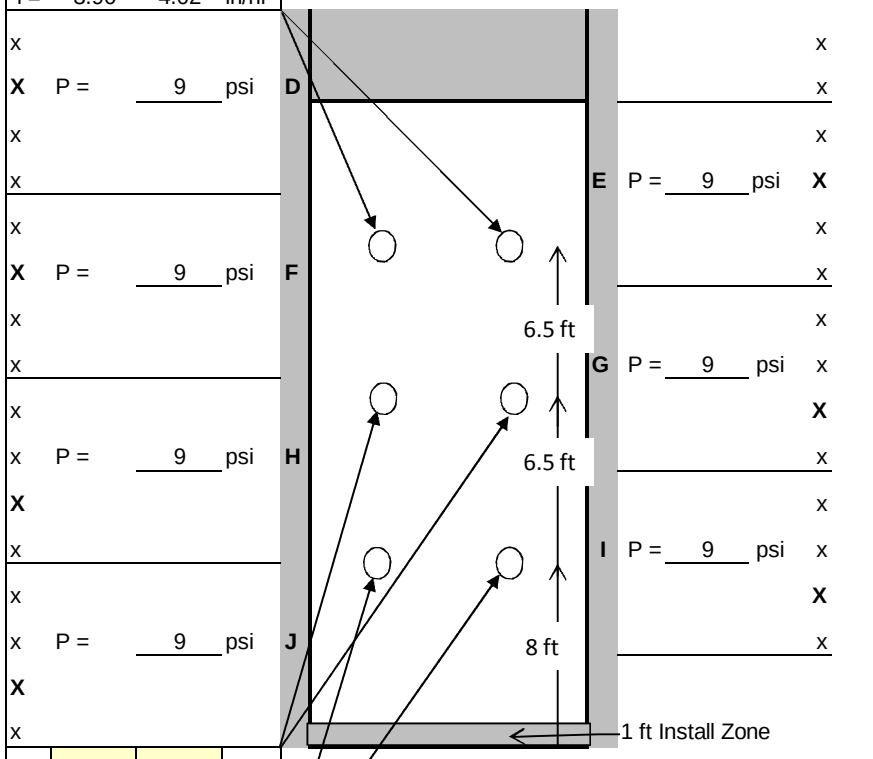
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 33 34 mm

i = 3.90 4.02 in/hr



d = 33 34 mm

i = 3.90 4.02 in/hr

w_{c2} = 21.2%

d = 33 36 mm

i = 3.90 4.25 in/hr

w_{c3} = 22.8%

x x X x

P = 9 psi

Temp. 72 deg

Hum. 95 %

Average Depth: 34 mm

Avg Rainfall Intensity: 4.00 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:37	X	X
7:40	X	X
7:43	X	X
7:46	X	X
7:49	X	X
7:52	X	X
7:55	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	14
2	3785	10
3	3785	9
4	3785	9
5	3785	9
6	3785	9
7	3785	9
8	3785	9
9	3785	9
10	3785	9
11	3785	9
12	3785	9
13	3785	10
14	3785	9
15	3785	10
16	3785	10
17	3785	9
18	3785	9
19	3785	8
20	3785	8
21	3785	23
23	3785	0

NOTES:
Wind: 1 mph. Direction: SW
Approx 140 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date:	12-Jun-12	Start Rain:	8:08 AM	End Rain:	8:28 AM
		Sampling interval:	0:03	End Runoff:	8:41 AM
		Rain Time (min):	20.00	Test Time (min):	33.00
Product:	none	Descr:.	Control		
Lot #:		Posts:		Spacing:	

TOP OF SLOPE

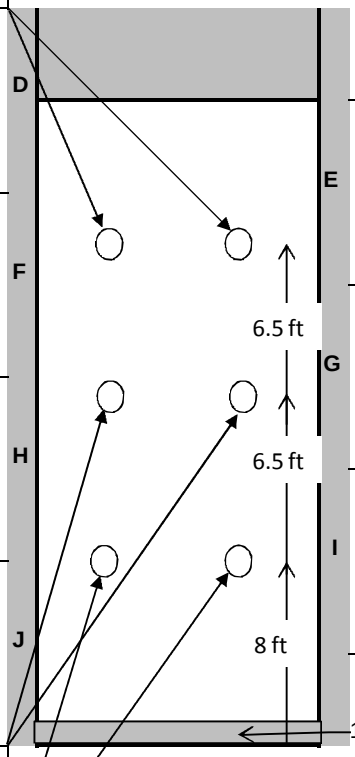
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 53 54 mm

i = 6.26 6.38 in/hr



x x
X P = 9 psi **D** x
x x
x **E** P = 9 psi **X**
x x
X P = 9 psi **F** x
x x
x **G** P = 9 psi x
x **X**
x P = 9 psi **H** x
X x
x **I** P = 9 psi x
x **X**
x P = 9 psi **J** x
X
x 1 ft Install Zone

d = 52 50 mm

i = 6.14 5.91 in/hr

x x **X** x

P = 9 psi Temp. 72 deg

Hum. 95 %

w_{c2} = 21.2%

d = 51 51 mm

i = 6.02 6.02 in/hr

w_{c3} = 22.8%

Average Depth: **52** **mm**

Avg Rainfall Intensity: **6.12** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:11	X	X
8:14	X	X
8:17	X	X
8:20	X	X
8:23	X	X
8:26	X	X
8:29	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	8
2	3785	8
3	3785	7
4	3785	6
5	3785	7
6	3785	6
7	3785	6
8	3785	7
9	3785	6
10	3785	6
11	3785	6
12	3785	6
13	3785	6
14	3785	6
15	3785	6
16	3785	6
17	3785	6
18	3785	5
19	3785	5
20	3785	5
21	3785	19
33	3785	0

NOTES:

Wind: 0 mph. Direction: SW

Approx 210 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date: 1-Jun-12 | Start Rain: 9:07 AM | End Rain: 9:27 AM

Sampling interval: 0:03 | End Runoff: 9:29 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

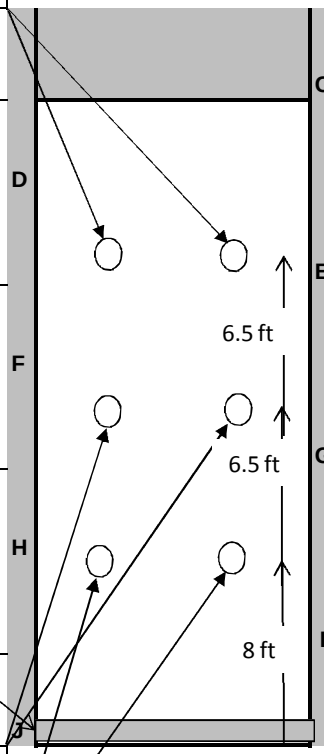
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 18 18 mm

i = 2.13 2.13 in/hr



x					x
	C	P = 9 psi			X
x					x
X	D	P = 9 psi			x
x					x
x	E	P = 9 psi			X
x					x
X	F	P = 9 psi			x
x					x
x	G	P = 9 psi			x
x					X
x	H	P = 9 psi			x
X					x
x	I	P = 9 psi			x
					X
	J				x

d = 19 18 mm

i = 2.24 2.13 in/hr

w_{c2} = 21.2%

d = 16 16 mm

i = 1.89 1.89 in/hr

w_{c3} = 22.8%

x x X x

P = 9 psi

Temp. 67 deg

Hum. 91 %

Average Depth: 18 mm

Avg Rainfall Intensity: 2.07 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:10		
9:13		
9:16		
9:19	X	X
9:22	X	X
9:25	X	X
9:28	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	60
2	250	60
3	250	60
4	250	60
5	250	60
6	250	60
7	250	60
8	250	60
9	250	60
10	250	60
11	250	18
12	250	2
13	250	2
14	250	2
15	250	2
16	250	2
17	250	2
18	250	2
19	250	2
20	250	2
21	250	5
22	250	0

NOTES:

Wind: 0 mph. Direction: S

Approx 20 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 1-Jun-12 | Start Rain: 9:39 AM | End Rain: 9:59 AM

Sampling interval: 0:03 | End Runoff: 10:02 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

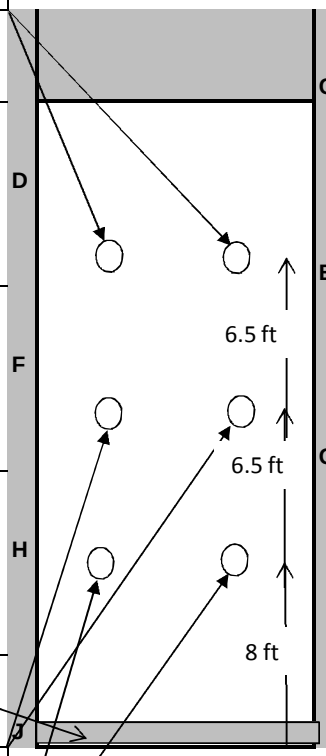
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 34 35 mm

i = 4.02 4.13 in/hr



				C	P = 9 psi	x / X
x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
						X
				J		x

d = 34 34 mm

i = 4.02 4.02 in/hr

w_{c2} = 21.2%

x x **X** x

P = 9 psi

Temp. 68 deg

Hum. 92 %

d = 32 34 mm

i = 3.78 4.02 in/hr

w_{c3} = 22.8%

Average Depth: 34 mm

Avg Rainfall Intensity: 4.00 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:42	X	X
9:45	X	X
9:48	X	X
9:51	X	X
9:54	X	X
9:57	X	X
10:00	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	16
2	3785	12
3	3785	10
4	3785	10
5	3785	10
6	3785	10
7	3785	9
8	3785	8
9	3785	8
10	3785	9
11	3785	8
12	3785	8
13	3785	8
14	3785	8
15	3785	8
16	3785	7
17	3785	7
18	3785	8
19	3785	7
20	3785	7
21	3785	18
23	3785	0

NOTES:

Wind: 0 mph. Direction: S

Approx 150 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date: 1-Jun-12 | Start Rain: 10:09 AM | End Rain: 10:29 AM

Sampling interval: 0:03 | End Runoff: 10:33 AM

Rain Time (min): 20.00 | Test Time (min): 24.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

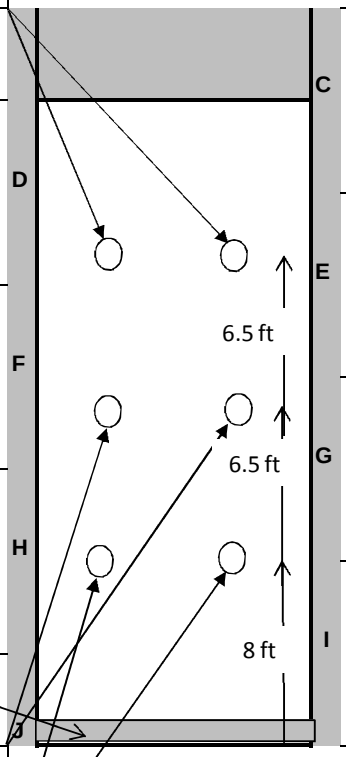
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 50 51 mm

i = 5.91 6.02 in/hr



			C P = 9 psi		X
x					x
X	P = 9 psi	D			x
x					x
x			E P = 9 psi		X
x					x
X	P = 9 psi	F			x
x					x
x			G P = 9 psi		x
x					X
x	P = 9 psi	H			x
X					x
x			I P = 9 psi		x
					X
			J		x

d = 53 52 mm

i = 6.26 6.14 in/hr

w_{c2} = 21.2%

d = 50 49 mm

i = 5.91 5.79 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 68 deg

Hum. 93 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
10:12	X	X
10:15	X	X
10:18	X	X
10:21	X	X
10:24	X	X
10:27	X	X
10:30	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	8
2	3785	7
3	3785	7
4	3785	6
5	3785	6
6	3785	6
7	3785	6
8	3785	6
9	3785	6
10	3785	6
11	3785	6
12	3785	6
13	3785	6
14	3785	6
15	3785	6
16	3785	6
17	3785	6
18	3785	6
19	3785	5
20	3785	5
21	3785	10
24	3785	0

NOTES:

Wind: 0 mph. Direction: S

Approx 220 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date:	8-Jun-12	Start Rain:	8:29 AM	End Rain:	8:49 AM
		Sampling interval:	0:03	End Runoff:	8:51 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	none	Descr:.	Control		
Lot #:		Posts:		Spacing:	

TOP OF SLOPE

(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

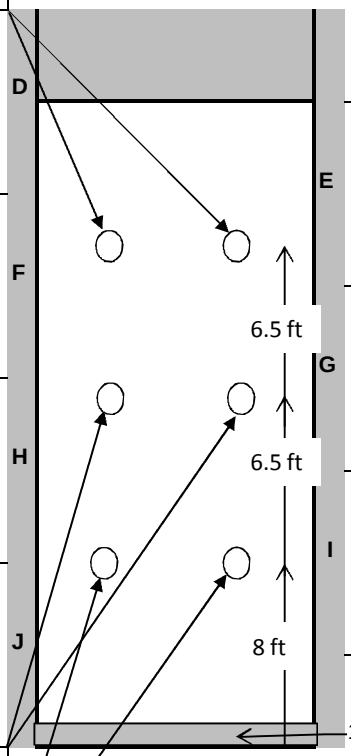
d =	17	17	mm
i =	2.01	2.01	in/hr

x
X P = 9 psi **D**
x
x

x
X P = 9 psi **F**
x
x

x
x P = 9 psi **H**
X
x

x
x P = 9 psi **J**
X
x



x
x
x
E P = 9 psi **X**
x
x
x
G P = 9 psi x
X
x
x
I P = 9 psi x
X
x

x x **X** x

P = 9 psi

Temp. 70 deg

Hum. 79 %

d =	18	19	mm
i =	2.13	2.24	in/hr

w_{c2} = 21.2%

d =	17	17	mm
i =	2.01	2.01	in/hr

w_{c3} = 22.8%

Average Depth: **18** **mm**

Avg Rainfall Intensity: **2.07** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:32	X	X
8:35	X	X
8:38	X	X
8:41	X	X
8:44	X	X
8:47	X	X
8:50	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	50
2	250	40
3	250	38
4	250	36
5	250	27
6	250	12
7	250	7
8	250	5
9	250	3
10	250	3
11	250	3
12	250	2
13	250	2
14	250	2
15	250	2
16	250	2
17	250	2
18	250	2
19	250	2
20	250	2
21	250	10
22	250	0

NOTES: SLOPE G2

Wind: 0 mph. Direction: E

Approx 25 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date: 8-Jun-12 | Start Rain: 9:02 AM | End Rain: 9:22 AM

Sampling interval: 0:03 | End Runoff: 9:24 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: none | Descr:. Control

Lot #: | Posts: | Spacing:

TOP OF SLOPE

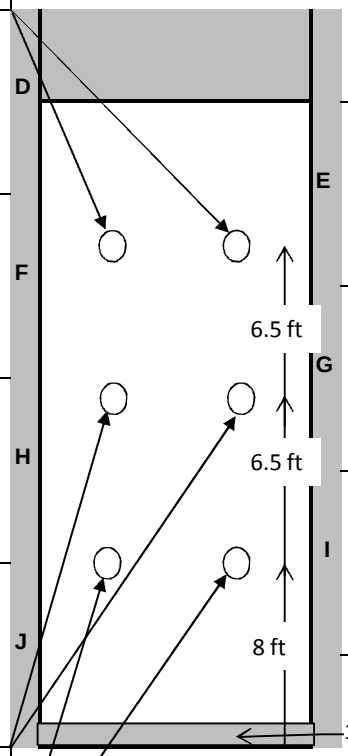
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 33 33 mm

i = 3.90 3.90 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 34 34 mm

i = 4.02 4.02 in/hr

w_{c2} = 21.2%

d = 35 33 mm

i = 4.13 3.90 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 73 deg

Hum. 76 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **3.98** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:05	X	X
9:08	X	X
9:11	X	X
9:14	X	X
9:17	X	X
9:20	X	X
9:23	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	3785	25
2	3785	15
3	3785	12
4	3785	12
5	3785	12
6	3785	11
7	3785	10
8	3785	9
9	3785	9
10	3785	9
11	3785	9
12	3785	9
13	3785	9
14	3785	9
15	3785	9
16	3785	9
17	3785	9
18	3785	8
19	3785	8
20	3785	8
21	3785	12
22	3785	0

NOTES: SLOPE G2

Wind: 0 mph. Direction: E

Approx 130 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date:	8-Jun-12	Start Rain:	9:32 AM	End Rain:	9:52 AM
		Sampling interval:	0:03	End Runoff:	9:54 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	none	Descr:.	Control		
Lot #:		Posts:		Spacing:	

TOP OF SLOPE

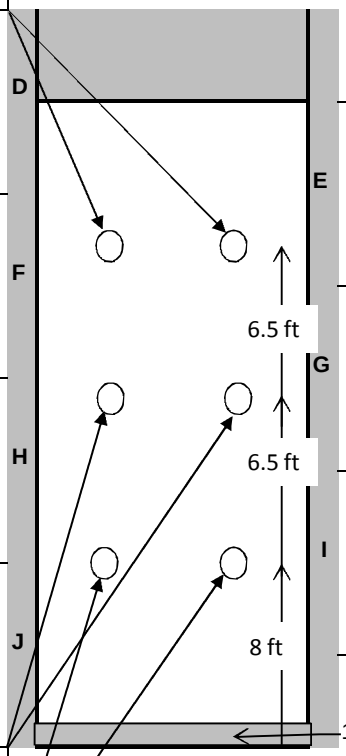
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 21.8%

d = 53 51 mm

i = 6.26 6.02 in/hr



x								x
X	P =	9	psi	D				x
x								x
x					E	P =	9 psi	X
x								x
X	P =	9	psi	F				x
x								x
x					G	P =	9 psi	x
x								X
x	P =	9	psi	H				x
X								x
x					I	P =	9 psi	x
x								X
x	P =	9	psi	J				x
X								
x								

d = 50 51 mm

i = 5.91 6.02 in/hr

w_{c2} = 21.2%

d = 50 50 mm

i = 5.91 5.91 in/hr

w_{c3} = 22.8%

x x **X** x

P = 9 psi

Temp. 63 deg

Hum. 93 %

Average Depth: **51** **mm**

Avg Rainfall Intensity: **6.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:35	X	X
9:38	X	X
9:41	X	X
9:44	X	X
9:47	X	X
9:50	X	X
9:53	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	19
2	3785	7
3	3785	6
4	3785	6
5	3785	7
6	3785	6
7	3785	7
8	3785	6
9	3785	6
10	3785	6
11	3785	5
12	3785	6
13	3785	5
14	3785	6
15	3785	5
16	3785	5
17	3785	6
18	3785	6
19	3785	5
20	3785	5
21	3785	15
22	3785	0

NOTES: SLOPE G2

Wind: 0 mph. Direction: E

Approx 210 gallons collected.

GSWCC_SB Data Form - Turbidities

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	37.4
2	20	39.4
3	20	37.8

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	1408	2-1	3.00	no sample	2-1	3.00	781
2-2	6.00	2370	2-2	6.00	no sample	2-2	6.00	924
2-3	9.00	9999	2-3	9.00	2463	2-3	9.00	9999
2-4	12.00	9999	2-4	12.00	9999	2-4	12.00	9999
2-5	15.00	9999	2-5	15.00	9999	2-5	15.00	9999
2-6	18.00	9999	2-6	18.00	9999	2-6	18.00	9999
2-7	21.00	9999	2-7	21.00	9999	2-7	21.00	9999
avg		**7682**	avg		**8492**	avg		**7386**
4-1	3.00	9999	4-1	2.00	9999	4-1	2.00	9999
4-2	6.00	9999	4-2	4.00	9999	4-2	4.00	9999
4-3	9.00	9999	4-3	6.00	9999	4-3	6.00	9999
4-4	12.00	9999	4-4	8.00	9999	4-4	8.00	9999
4-5	15.00	9999	4-5	10.00	9999	4-5	10.00	9999
4-6	18.00	9999	4-6	12.00	9999	4-6	12.00	9999
4-7	21.00	9999	4-7	21.00	9999	4-7	21.00	9999
avg		**9999**	avg		**9999**	avg		**9999**
6-1	3.00	9999	6-1	3.00	9999	6-1	3.00	9999
6-2	6.00	9999	6-2	6.00	9999	6-2	6.00	9999
6-3	9.00	9999	6-3	9.00	9999	6-3	9.00	9999
6-4	12.00	9999	6-4	12.00	9999	6-4	12.00	9999
6-5	15.00	9999	6-5	15.00	9999	6-5	15.00	9999
6-6	18.00	9999	6-6	18.00	9999	6-6	18.00	9999
6-7	21.00	9999	6-7	21.00	9999	6-7	21.00	9999
avg		**9999**	avg		**9999**	avg		**9999**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.13	in/hr	avg														
12-Jun-12		2-1	3.00	314.09	156.88	150.66	148.79	1870.00	163.43	0.16	11442.21	3.00	908.50	1.51	11442.21	0.14
		2-2	6.00	343.14	157.18	153.88	151.78	2100.00	189.26	0.19	11095.85	6.00	272.55	0.39	11095.85	0.04
		2-3	9.00	375.84	165.04	151.96	149.23	2730.00	223.88	0.22	12194.03	9.00	181.70	0.88	12194.03	0.09
		2-4	12.00	376.72	238.51	154.63	150.88	3750.00	222.09	0.22	16885.05	12.00	60.57	2.14	16885.05	0.30
		2-5	15.00	387.13	222.20	154.56	147.75	6810.00	232.57	0.23	29281.51	15.00	30.28	4.04	29281.51	0.99
		2-6	18.00	373.40	195.67	156.62	149.47	7150.00	216.78	0.22	32982.75	18.00	30.28	5.94	32982.75	1.64
		2-7	21.00	351.86	166.20	154.27	147.16	7110.00	197.59	0.20	35983.60	21.00	151.42	4.62	35983.60	1.39
										AVG =	**21409.28**	86.00	0	0.99	35983.60	0.30
4.00	in/hr	avg									21409.28			**Total Solids Lost:**		**4.88**
12-Jun-12		4-1	3.00	358.90	205.51	159.29	150.60	8690.00	199.61	0.20	43534.89	3.00	9.00	19.89	43534.89	7.22
		4-2	6.00	316.67	183.79	157.54	149.99	7550.00	159.13	0.16	47445.48	6.00	9.00	20.00	47445.48	7.92
		4-3	9.00	341.99	194.34	159.43	150.87	8560.00	182.56	0.18	46888.69	9.00	9.00	20.00	46888.69	7.82
		4-4	12.00	340.63	188.26	155.91	146.45	9460.00	184.72	0.18	51212.65	12.00	9.00	20.00	51212.65	8.54
		4-5	15.00	347.01	196.87	159.55	149.58	9970.00	187.46	0.19	53184.68	15.00	10.00	18.95	53184.68	8.41
		4-6	18.00	349.71	189.16	163.38	151.93	11450.00	186.33	0.19	61450.12	18.00	9.00	18.98	61450.12	9.73
		4-7	21.00	354.84	170.25	159.73	147.65	12080.00	195.11	0.20	61913.79	21.00	23.00	18.43	61913.79	9.52
										AVG =	**52232.90**	23.00	0.00	3.75	61913.79	1.94
6.12	in/hr	avg									52232.90			**Total Solids Lost:**		**61.10**
12-Jun-12		6-1	3.00	356.04	204.97	161.55	150.97	10580.00	194.49	0.19	54398.68	3.00	7.00	30.50	54398.68	13.84
		6-2	6.00	354.01	197.37	163.50	150.23	13270.00	190.51	0.19	69655.14	6.00	6.00	27.69	69655.14	16.09
		6-3	9.00	355.55	210.94	164.49	150.24	14250.00	191.06	0.19	74583.90	9.00	6.00	28.46	74583.90	17.71
		6-4	12.00	355.87	202.87	161.44	148.06	13380.00	194.43	0.19	68816.54	12.00	6.00	30.00	68816.54	17.22
		6-5	15.00	364.31	223.22	166.57	151.30	15270.00	197.74	0.20	77222.62	15.00	6.00	30.00	77222.62	19.33
		6-6	18.00	355.18	190.87	166.39	149.91	16480.00	188.79	0.19	87292.76	18.00	5.00	30.91	87292.76	22.51
		6-7	21.00	337.87	172.58	166.68	150.56	16120.00	171.19	0.17	94164.38	21.00	19.00	29.00	94164.38	22.78
										AVG =	**75162.00**	33.00	0.00	6.00	94164.38	4.71
											75162.00			**Total Solids Lost:**		**134.20**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.07	in/hr	avg														
1-Jun-12		2-1	3.00	199.80	168.55	148.65	148.55	100.00	51.15	0.05	1955.03	3.00	908.50	0.26	1955.03	0.00
		2-2	6.00	195.89	163.65	148.59	148.06	530.00	47.30	0.05	11205.07	6.00	908.50	0.20	11205.07	0.02
		2-3	9.00	185.34	156.86	150.08	149.98	100.00	35.26	0.04	2836.07	9.00	908.50	0.20	2836.07	0.00
		2-4	12.00	319.42	164.24	153.38	149.28	4100.00	166.04	0.17	24692.85	12.00	30.28	0.56	24692.85	0.12
		2-5	15.00	371.78	189.02	155.22	150.74	4480.00	216.56	0.22	20687.11	15.00	30.28	5.94	20687.11	1.03
		2-6	18.00	378.51	219.58	158.81	151.33	7480.00	219.70	0.22	34046.43	18.00	30.28	5.94	34046.43	1.69
		2-7	21.00	318.34	203.15	160.95	150.76	10190.00	157.39	0.16	64743.63	21.00	75.71	5.09	64743.63	2.75
										AVG =	**22880.88**	22.00	0.00	0.99	64743.63	0.54
4.00	in/hr	avg									22880.88			**Total Solids Lost:**		**6.15**
1-Jun-12		4-1	3.00	332.76	220.72	160.49	149.37	11120.00	172.27	0.17	64549.83	3.00	10.00	17.24	64549.83	9.28
		4-2	6.00	312.78	214.90	161.56	151.74	9820.00	151.22	0.15	64938.50	6.00	10.00	18.00	64938.50	9.75
		4-3	9.00	323.68	185.01	160.72	149.94	10780.00	162.96	0.16	66151.20	9.00	8.00	20.87	66151.20	11.52
		4-4	12.00	346.48	208.11	161.95	150.75	11200.00	184.53	0.18	60694.74	12.00	8.00	21.62	60694.74	10.95
		4-5	15.00	339.06	197.38	160.72	149.48	11240.00	178.34	0.18	63025.68	15.00	8.00	22.50	63025.68	11.83
		4-6	18.00	318.30	199.72	161.30	150.85	10450.00	157.00	0.16	66560.51	18.00	8.00	24.57	66560.51	13.64
		4-7	21.00	338.40	172.19	159.09	147.11	11980.00	179.31	0.18	66811.67	21.00	18.00	21.37	66811.67	11.91
										AVG =	**64676.02**	23.00	0.00	4.29	66811.67	2.39
6.00	in/hr	avg									64676.02			**Total Solids Lost:**		**81.28**
1-Jun-12		6-1	3.00	356.01	206.86	163.16	150.88	12280.00	192.85	0.19	63676.43	3.00	7.00	31.57	63676.43	16.77
		6-2	6.00	361.29	212.57	164.58	148.99	15590.00	196.71	0.20	79253.72	6.00	6.00	29.23	79253.72	19.33
		6-3	9.00	341.29	214.56	164.16	149.98	14180.00	177.13	0.18	80054.20	9.00	6.00	30.00	80054.20	20.04
		6-4	12.00	372.51	194.31	166.59	150.54	16050.00	205.92	0.21	77942.89	12.00	6.00	30.00	77942.89	19.51
		6-5	15.00	333.32	193.21	163.71	149.17	14540.00	169.61	0.17	85726.08	15.00	6.00	30.00	85726.08	21.45
		6-6	18.00	328.75	204.83	164.17	150.06	14110.00	164.58	0.16	85733.38	18.00	6.00	30.00	85733.38	21.46
		6-7	21.00	337.68	197.10	164.54	148.94	15600.00	173.14	0.17	90100.50	21.00	10.00	30.91	90100.50	23.23
										AVG =	**80355.31**	24.00	0.00	6.00	90100.50	4.51
											80355.31			**Total Solids Lost:**		**146.29**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.07	in/hr	avg														
8-Jun-12		2-1	3.00	341.62	169.84	151.75	151.41	340.00	189.87	0.19	1790.70	3.00	575.38	0.35	1790.70	0.01
		2-2	6.00	337.86	177.35	148.26	147.78	480.00	189.60	0.19	2531.65	6.00	181.70	0.44	2531.65	0.01
		2-3	9.00	346.95	193.57	152.80	147.71	5090.00	194.15	0.19	26216.84	9.00	45.42	2.07	26216.84	0.45
		2-4	12.00	345.95	183.67	152.48	147.77	4710.00	193.47	0.19	24344.86	12.00	30.28	4.23	24344.86	0.86
		2-5	15.00	295.45	186.97	151.28	147.09	4190.00	144.17	0.14	29062.91	15.00	30.28	5.94	29062.91	1.44
		2-6	18.00	383.03	219.12	156.69	150.12	6570.00	226.34	0.23	29027.13	18.00	30.28	5.94	29027.13	1.44
		2-7	21.00	318.03	169.62	155.24	150.68	4560.00	162.79	0.16	28011.55	21.00	151.42	4.62	28011.55	1.08
										AVG =	**20140.80**	22.00	0.00	0.99	28011.55	0.23
3.98	in/hr	avg									20140.80			**Total Solids Lost:**		**5.52**
8-Jun-12		4-1	3.00	337.96	223.42	166.85	148.61	18240.00	171.11	0.17	106598.09	3.00	12.00	12.24	106598.09	0.23
		4-2	6.00	355.42	227.86	159.20	149.76	9440.00	196.22	0.20	48109.27	6.00	11.00	15.22	48109.27	6.11
		4-3	9.00	351.10	211.24	160.17	148.67	11500.00	190.93	0.19	60231.50	9.00	9.00	18.69	60231.50	9.39
		4-4	12.00	333.66	196.32	160.99	149.44	11550.00	172.67	0.17	66890.60	12.00	9.00	20.00	66890.60	11.16
		4-5	15.00	354.63	212.70	160.31	147.14	13170.00	194.32	0.19	67774.80	15.00	9.00	20.00	67774.80	11.31
		4-6	18.00	362.44	215.46	166.06	150.09	15970.00	196.38	0.20	81321.93	18.00	8.00	20.39	81321.93	13.83
		4-7	21.00	361.80	178.84	171.36	150.97	20390.00	190.44	0.19	107067.84	21.00	12.00	21.00	107067.84	18.76
										AVG =	**76856.29**	22.00	0.00	3.75	107067.84	3.35
6.00	in/hr	avg									76856.29			**Total Solids Lost:**		**74.14**
8-Jun-12		6-1	3.00	354.33	215.44	159.82	149.58	10240.00	194.51	0.19	52645.11	3.00	6.00	20.16	52645.11	8.85
		6-2	6.00	368.33	227.25	161.51	148.27	13240.00	206.82	0.21	64017.02	6.00	6.00	28.46	64017.02	15.20
		6-3	9.00	373.45	228.90	162.72	147.47	15250.00	210.73	0.21	72367.48	9.00	6.00	28.46	72367.48	17.18
		6-4	12.00	365.17	212.70	162.38	147.56	14820.00	202.79	0.20	73080.53	12.00	6.00	31.81	73080.53	19.40
		6-5	15.00	348.45	194.83	163.82	148.45	15370.00	184.63	0.18	83247.58	15.00	5.00	32.72	83247.58	22.73
		6-6	18.00	365.45	208.77	168.48	151.17	17310.00	196.97	0.20	87881.40	18.00	6.00	32.91	87881.40	24.13
		6-7	21.00	380.87	184.80	167.59	150.94	16650.00	213.28	0.21	78066.39	21.00	15.00	28.91	78066.39	18.83
										AVG =	**73043.64**	22.00	0.00	6.00	78066.39	3.91
											73043.64			**Total Solids Lost:**		**130.23**

12-Jun-12

Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.13 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	91	1.32	1.32	1.32	
2-2	2.00	908	0.12	0.12	1.44	
2-3	3.00	908	0.07	0.07	1.51	
2-4	4.00	560	0.08	0.08	1.59	
2-5	5.00	379	0.13	0.13	1.72	
2-6	6.00	273	0.18	0.18	1.90	
2-7	7.00	212	0.25	0.25	2.15	
2-8	8.00	182	0.30	0.30	2.45	
2-9	9.00	182	0.33	0.33	2.78	
2-10	10.00	76	0.47	0.47	3.25	
2-11	11.00	76	0.79	0.79	4.04	
2-12	12.00	61	0.88	0.88	4.92	
2-13	13.00	45	1.13	1.13	6.05	
2-14	14.00	45	1.32	1.32	7.38	
2-15	15.00	30	1.59	1.59	8.96	
2-16	16.00	30	1.98	1.98	10.94	
2-17	17.00	30	1.98	1.98	12.92	
2-18	18.00	30	1.98	1.98	14.90	
2-19	19.00	30	1.98	1.98	16.89	
2-20	20.00	30	1.98	1.98	18.87	
2-21	21.00	151	0.66	0.66	19.53	
2-end	86.00	0	0.99	0.99	20.52	
					20.52	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	14	8.57	8.57	8.57	
4-2	2	10	5.00	5.00	13.57	
4-3	3	9	6.32	6.32	19.89	
4-4	4	9	6.67	6.67	26.55	
4-5	5	9	6.67	6.67	33.22	
4-6	6	9	6.67	6.67	39.88	
4-7	7	9	6.67	6.67	46.55	
4-8	8	9	6.67	6.67	53.21	
4-9	9	9	6.67	6.67	59.88	
4-10	10	9	6.67	6.67	66.55	
4-11	11	9	6.67	6.67	73.21	
4-12	12	9	6.67	6.67	79.88	
4-13	13	10	6.32	6.32	86.19	
4-14	14	9	6.32	6.32	92.51	
4-15	15	10	6.32	6.32	98.82	
4-16	16	10	6.00	6.00	104.82	
4-17	17	9	6.32	6.32	111.14	
4-18	18	9	6.67	6.67	117.80	
4-19	19	8	7.06	7.06	124.86	
4-20	20	8	7.50	7.50	132.36	
4-21	21	23	3.87	3.87	136.23	
4-end	23.00	0	3.75	3.75	139.98	
					139.98	**Total Collected Runoff (approx)**
6.12 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	8	15.00	15.00	15.00	
6-2	2	8	7.50	7.50	22.50	
6-3	3	7	8.00	8.00	30.50	
6-4	4	6	9.23	9.23	39.73	
6-5	5	7	9.23	9.23	48.96	
6-6	6	6	9.23	9.23	58.19	
6-7	7	6	10.00	10.00	68.18	
6-8	8	7	9.23	9.23	77.41	
6-9	9	6	9.23	9.23	86.64	
6-10	10	6	10.00	10.00	96.64	
6-11	11	6	10.00	10.00	106.64	
6-12	12	6	10.00	10.00	116.64	
6-13	13	6	10.00	10.00	126.64	
6-14	14	6	10.00	10.00	136.64	
6-15	15	6	10.00	10.00	146.64	
6-16	16	6	10.00	10.00	156.64	
6-17	17	6	10.00	10.00	166.64	
6-18	18	5	10.91	10.91	177.54	
6-19	19	5	12.00	12.00	189.54	
6-20	20	5	12.00	12.00	201.54	
6-21	21	19	5.00	5.00	206.54	
6-end	33.00	0	6.00	6.00	212.54	
					212.54	**Total Collected Runoff (approx)**

1-Jun-12

Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.07 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	908	0.13	0.13	0.13	
2-2	2.00	908	0.07	0.07	0.20	
2-3	3.00	908	0.07	0.07	0.26	
2-4	4.00	908	0.07	0.07	0.33	
2-5	5.00	908	0.07	0.07	0.40	
2-6	6.00	908	0.07	0.07	0.46	
2-7	7.00	908	0.07	0.07	0.53	
2-8	8.00	908	0.07	0.07	0.59	
2-9	9.00	908	0.07	0.07	0.66	
2-10	10.00	908	0.07	0.07	0.73	
2-11	11.00	273	0.10	0.10	0.83	
2-12	12.00	30	0.40	0.40	1.22	
2-13	13.00	30	1.98	1.98	3.21	
2-14	14.00	30	1.98	1.98	5.19	
2-15	15.00	30	1.98	1.98	7.17	
2-16	16.00	30	1.98	1.98	9.15	
2-17	17.00	30	1.98	1.98	11.13	
2-18	18.00	30	1.98	1.98	13.11	
2-19	19.00	30	1.98	1.98	15.09	
2-20	20.00	30	1.98	1.98	17.07	
2-21	21.00	76	1.13	1.13	18.21	
2-end	22.00	0	0.99	0.99	19.20	
					19.20	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	16	7.50	7.50	7.50	
4-2	2	12	4.29	4.29	11.78	
4-3	3	10	5.45	5.45	17.24	
4-4	4	10	6.00	6.00	23.24	
4-5	5	10	6.00	6.00	29.24	
4-6	6	10	6.00	6.00	35.24	
4-7	7	9	6.32	6.32	41.55	
4-8	8	8	7.06	7.06	48.61	
4-9	9	8	7.50	7.50	56.11	
4-10	10	9	7.06	7.06	63.17	
4-11	11	8	7.06	7.06	70.22	
4-12	12	8	7.50	7.50	77.72	
4-13	13	8	7.50	7.50	85.22	
4-14	14	8	7.50	7.50	92.72	
4-15	15	8	7.50	7.50	100.22	
4-16	16	7	8.00	8.00	108.22	
4-17	17	7	8.57	8.57	116.79	
4-18	18	8	8.00	8.00	124.79	
4-19	19	7	8.00	8.00	132.79	
4-20	20	7	8.57	8.57	141.36	
4-21	21	18	4.80	4.80	146.16	
4-end	23	0	4.29	4.29	150.44	
					150.44	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	8	15.00	15.00	15.00	
6-2	2	7	8.00	8.00	23.00	
6-3	3	7	8.57	8.57	31.57	
6-4	4	6	9.23	9.23	40.80	
6-5	5	6	10.00	10.00	50.80	
6-6	6	6	10.00	10.00	60.80	
6-7	7	6	10.00	10.00	70.79	
6-8	8	6	10.00	10.00	80.79	
6-9	9	6	10.00	10.00	90.79	
6-10	10	6	10.00	10.00	100.79	
6-11	11	6	10.00	10.00	110.79	
6-12	12	6	10.00	10.00	120.79	
6-13	13	6	10.00	10.00	130.79	
6-14	14	6	10.00	10.00	140.79	
6-15	15	6	10.00	10.00	150.79	
6-16	16	6	10.00	10.00	160.78	
6-17	17	6	10.00	10.00	170.78	
6-18	18	6	10.00	10.00	180.78	
6-19	19	5	10.91	10.91	191.69	
6-20	20	5	12.00	12.00	203.69	
6-21	21	10	8.00	8.00	211.69	
6-end	24	0	6.00	6.00	217.69	
					217.69	**Total Collected Runoff (approx)**

8-Jun-12

Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.07 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	757	0.16	0.16	0.16	
2-2	2.00	606	0.09	0.09	0.25	
2-3	3.00	575	0.10	0.10	0.35	
2-4	4.00	545	0.11	0.11	0.46	
2-5	5.00	409	0.13	0.13	0.58	
2-6	6.00	182	0.20	0.20	0.78	
2-7	7.00	106	0.42	0.42	1.20	
2-8	8.00	76	0.66	0.66	1.86	
2-9	9.00	45	0.99	0.99	2.85	
2-10	10.00	45	1.32	1.32	4.17	
2-11	11.00	45	1.32	1.32	5.49	
2-12	12.00	30	1.59	1.59	7.08	
2-13	13.00	30	1.98	1.98	9.06	
2-14	14.00	30	1.98	1.98	11.04	
2-15	15.00	30	1.98	1.98	13.02	
2-16	16.00	30	1.98	1.98	15.00	
2-17	17.00	30	1.98	1.98	16.99	
2-18	18.00	30	1.98	1.98	18.97	
2-19	19.00	30	1.98	1.98	20.95	
2-20	20.00	30	1.98	1.98	22.93	
2-21	21.00	151	0.66	0.66	23.59	
2-end	22.00	0	0.99	0.99	24.58	
					24.58	**Total Collected Runoff (approx)**
3.98 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	25	4.80	4.80	4.80	
4-2	2	15	3.00	3.00	7.80	
4-3	3	12	4.44	4.44	12.24	
4-4	4	12	5.00	5.00	17.24	
4-5	5	12	5.00	5.00	22.24	
4-6	6	11	5.22	5.22	27.46	
4-7	7	10	5.71	5.71	33.17	
4-8	8	9	6.32	6.32	39.49	
4-9	9	9	6.67	6.67	46.15	
4-10	10	9	6.67	6.67	52.82	
4-11	11	9	6.67	6.67	59.49	
4-12	12	9	6.67	6.67	66.15	
4-13	13	9	6.67	6.67	72.82	
4-14	14	9	6.67	6.67	79.48	
4-15	15	9	6.67	6.67	86.15	
4-16	16	9	6.67	6.67	92.82	
4-17	17	9	6.67	6.67	99.48	
4-18	18	8	7.06	7.06	106.54	
4-19	19	8	7.50	7.50	114.04	
4-20	20	8	7.50	7.50	121.54	
4-21	21	12	6.00	6.00	127.54	
4-end	22	0	3.75	3.75	131.29	
					131.29	**Total Collected Runoff (approx)**
6.00 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	19	6.32	6.32	6.32	
6-2	2	7	4.61	4.61	10.93	
6-3	3	6	9.23	9.23	20.16	
6-4	4	6	10.00	10.00	30.16	
6-5	5	7	9.23	9.23	39.39	
6-6	6	6	9.23	9.23	48.62	
6-7	7	7	9.23	9.23	57.85	
6-8	8	6	9.23	9.23	67.08	
6-9	9	6	10.00	10.00	77.08	
6-10	10	6	10.00	10.00	87.08	
6-11	11	5	10.91	10.91	97.98	
6-12	12	6	10.91	10.91	108.89	
6-13	13	5	10.91	10.91	119.80	
6-14	14	6	10.91	10.91	130.71	
6-15	15	5	10.91	10.91	141.62	
6-16	16	5	12.00	12.00	153.61	
6-17	17	6	10.91	10.91	164.52	
6-18	18	6	10.00	10.00	174.52	
6-19	19	5	10.91	10.91	185.43	
6-20	20	5	12.00	12.00	197.43	
6-21	21	15	6.00	6.00	203.43	
6-end	22	0	6.00	6.00	209.43	
					209.43	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	12-Jun-12	1-Jun-12	8-Jun-12
Avg Moisture Content:	**21.91%**	**23.11%**	**22.56%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	261.68	254.41	262.1
Wt. Of cup + dry soil, g	253.71	247.47	254.03
Wt. Of cup, g	217.11	217.17	217.11
Wt. Of dry soil, g	36.6	30.3	36.92
Wt. Of water, g	7.97	6.94	8.07
Water Content, w%	21.8%	22.9%	21.9%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	268.68	254.09	265.55
Wt. Of cup + dry soil, g	259.57	247.07	256.5
Wt. Of cup, g	216.54	216.99	216.54
Wt. Of dry soil, g	43.03	30.08	39.96
Wt. Of water, g	9.11	7.02	9.05
Water Content, w%	21.2%	23.3%	22.6%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	254.22	253.16	262.47
Wt. Of cup + dry soil, g	247.33	246.4	253.93
Wt. Of cup, g	217.08	217.13	217.08
Wt. Of dry soil, g	30.25	29.27	36.85
Wt. Of water, g	6.89	6.76	8.54
Water Content, w%	22.8%	23.1%	23.2%

Soil Loss Data

Slope No.	1	2	3
Test Date:	12-Jun-12	1-Jun-12	8-Jun-12
Total Soil Loss	**210.24**	**240.10**	**214.32**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		2288	2860	2506
Sub-Sample	Wt. Of cup + wet soil, g	2288	2860	2506
	Wt. Of cup + dry soil, g	2288	2860	2506
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	2288	2860	2506
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		5.040	6.300	5.520

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		31962	38499	34686
Sub-Sample	Wt. Of cup + wet soil, g	31962	38499	34686
	Wt. Of cup + dry soil, g	31962	38499	34686
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	31962	38499	34686
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		70.401	84.800	76.401

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		61199	67646	60110
Sub-Sample	Wt. Of cup + wet soil, g	61199	67646	60110
	Wt. Of cup + dry soil, g	61199	67646	60110
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	61199	67646	60110
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		134.800	149.000	132.401

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 2 in/hr**

Date: 14-Aug-12 | Start Rain: 8:45 AM | End Rain: 9:05 AM

Sampling interval: 0:03 | End Runoff: 9:07 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: CONTROL | Descr:. Slope G1

Lot #: | Posts: | Spacing:

TOP OF SLOPE

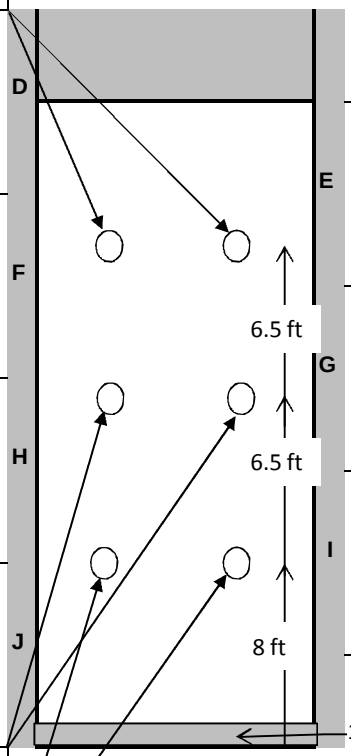
(circle "x" for open valves)

Set valves to 13 psi.

w_{c1} = 24.5%

d = 17 17 mm

i = 2.01 2.01 in/hr



x						x	
X	P =	9	psi	D		x	
x						x	
x					E	P = 9 psi	X
x						x	
X	P =	9	psi	F		x	
x						x	
x					G	P = 9 psi	x
x							X
x	P =	9	psi	H		x	
X						x	
x					I	P = 9 psi	x
x							X
x	P =	9	psi	J		x	
X							
x							

d = 17 17 mm

i = 2.01 2.01 in/hr

w_{c2} = 19.6%

d = 17 18 mm

i = 2.01 2.13 in/hr

w_{c3} = 23.0%

x x **X** x

P = 10 psi

Temp. 70 deg

Hum. 81 %

Average Depth: **17** **mm**

Avg Rainfall Intensity: **2.03** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:48	X	X
8:51	X	X
8:54	X	X
8:57	X	X
9:00	X	X
9:03	X	X
9:06	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	29
2	250	10
3	250	6
4	250	5
5	250	4
6	250	4
7	250	4
8	250	4
9	250	4
10	250	3
11	250	3
12	250	2
13	3785	39
14	3785	25
15	3785	22
16	3785	29
17	3785	30
18	3785	41
19	3785	36
20	3785	36
21	3785	50
22	3785	0

NOTES:

Wind: 1 mph. Direction: SSW. Approx 30 gallons collected

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 4 in/hr**

Date: 14-Aug-12 | Start Rain: 9:15 AM | End Rain: 9:35 AM

Sampling interval: 0:03 | End Runoff: 9:37 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: Control | Descr:. Slope G1

Lot #: | Posts: | Spacing:

TOP OF SLOPE

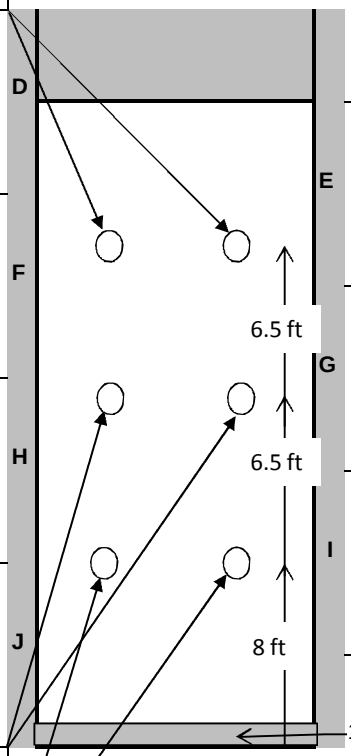
(circle "x" for open valves)

Set valves to 16 psi.

w_{c1} = 24.5%

d = 38 37 mm

i = 4.49 4.37 in/hr



x						x
X	P = 9 psi	D				x
x						x
x				E	P = 9 psi	X
x						x
X	P = 9 psi	F				x
x						x
x				G	P = 9 psi	x
x						X
x	P = 9 psi	H				x
X						x
x				I	P = 9 psi	x
x						X
x	P = 9 psi	J				x
X						
x						

d = 34 30 mm

i = 4.02 3.54 in/hr

w_{c2} = 19.6%

d = 32 36 mm

i = 3.78 4.25 in/hr

w_{c3} = 23.0%

x x **X** x

P = 9 psi

Temp. 71 deg

Hum. 84 %

Average Depth: **35** **mm**

Avg Rainfall Intensity: **4.07** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:18	X	X
9:21	X	X
9:24	X	X
9:27	X	X
9:30	X	X
9:33	X	X
9:36	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	2
2	3785	9
3	3785	11
4	3785	10
5	3785	10
6	3785	8
7	3785	10
8	3785	8
9	3785	9
10	3785	10
11	3785	9
12	3785	8
13	3785	9
14	3785	9
15	3785	9
16	3785	10
17	3785	12
18	3785	13
19	3785	16
20	3785	12
21	3785	24
22	3785	0

NOTES:

Wind: 0 mph. Direction: N . Approx 125 gallons collected.

DDRF Rainfall Testing

Slope #: 1 | **Target Rain: 6 in/hr**

Date: 14-Aug-12 | Start Rain: 9:46 AM | End Rain: 10:06 AM

Sampling interval: 0:03 | End Runoff: 10:09 AM

Rain Time (min): 20.00 | Test Time (min): 23.00

Product: Control | Descr:. Slope G1

Lot #: | Posts: | Spacing:

TOP OF SLOPE

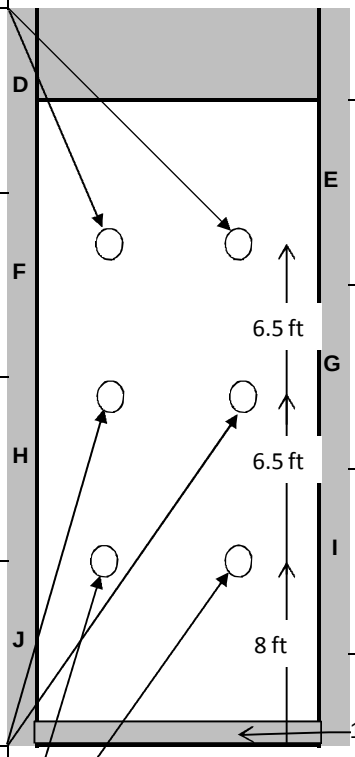
(circle "x" for open valves)

Set valves to 13 psi.

w_{c1} = 24.5%

d =	54	53	mm
i =	6.38	6.26	in/hr

x						x
X	P =	9	psi	D		x
x						x
x					E P = 9 psi	X
x						x
X	P =	9	psi	F		x
x						x
x					G P = 9 psi	x
x						X
x	P =	9	psi	H		x
X						x
x					I P = 9 psi	x
x						X
x	P =	9	psi	J		x
X						
x						1 ft Install Zone



d =	55	51	mm
i =	6.50	6.02	in/hr

x x **X** x

P = 9 psi | Temp. 71 deg | Hum. 86 %

w_{c2} = 19.6%

d =	42	56	mm
i =	4.96	6.61	in/hr

w_{c3} = 23.0%

Average Depth: 52 mm

Avg Rainfall Intensity: 6.12 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
9:49	X	X
9:52	X	X
9:55	X	X
9:58	X	X
10:01	X	X
10:04	X	X
10:07	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	2
2	3785	6
3	3785	5
4	3785	5
5	3785	5
6	3785	6
7	3785	6
8	3785	6
9	3785	6
10	3785	5
11	3785	5
12	3785	6
13	3785	5
14	3785	6
15	3785	6
16	3785	5
17	3785	5
18	3785	6
19	3785	6
20	3785	6
21	3785	7
23	3785	0

NOTES:

Wind: 0 mph. Direction: N . Approx 220 gallons collected

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 2 in/hr**

Date: 14-Aug-12 | Start Rain: 6:53 AM | End Rain: 7:13 AM

Sampling interval: 0:03 | End Runoff: 7:15 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: Control | Descr:. Slope G2

Lot #: | Posts: | Spacing:

TOP OF SLOPE

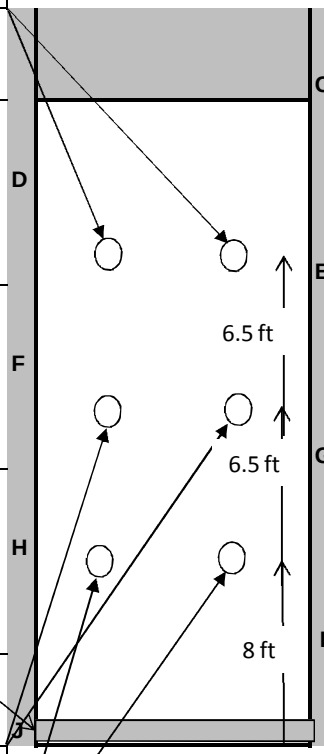
(circle "x" for open valves)

Set valves to 13 psi.

w_{c1} = 24.5%

d = 20 17 mm

i = 2.36 2.01 in/hr



x					x
	C	P = 9 psi			X
x					x
X	D	P = 9 psi			x
x					x
x	E	P = 9 psi			X
x					x
X	F	P = 9 psi			x
x					x
x	G	P = 9 psi			x
x					X
x	H	P = 9 psi			x
X					x
x	I	P = 9 psi			x
					X
	J				x

d = 17 19 mm

i = 2.01 2.24 in/hr

w_{c2} = 19.6%

d = 17 19 mm

i = 2.01 2.24 in/hr

w_{c3} = 23.0%

x x **X** x

P = 10 psi | Temp. 67 deg | Hum. 91 %

Average Depth: 18 mm

Avg Rainfall Intensity: 2.15 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
6:56		
6:59		
7:02		
7:05	X	X
7:08	X	X
7:11	X	X
7:14	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	60
2	250	34
3	250	32
4	250	28
5	250	16
6	250	6
7	250	4
8	3785	53
9	3785	33
10	3785	30
11	3785	37
12	3785	36
13	3785	36
14	3785	36
15	3785	37
16	3785	45
17	3785	43
18	3785	43
19	3785	44
20	3785	44
21	250	9
22	250	0

NOTES:

Wind: 0 mph. Direction: NW . Approx 20 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 4 in/hr**

Date: 14-Aug-12 | Start Rain: 7:22 AM | End Rain: 7:42 AM

Sampling interval: 0:03 | End Runoff: 7:44 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: Control | Slope G2

Lot #: | Posts: | Spacing:

TOP OF SLOPE

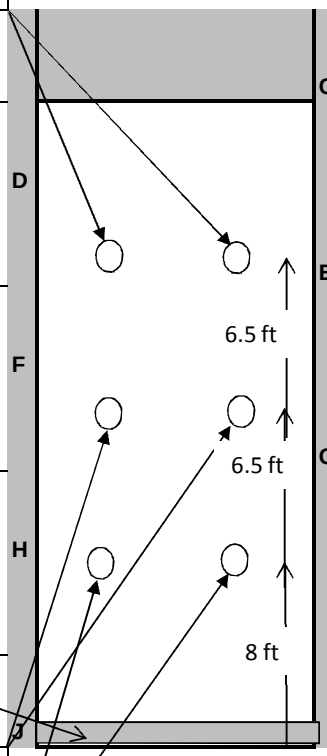
(circle "x" for open valves)

Set valves to 13 psi.

w_{c1} = 24.5%

d = 36 34 mm

i = 4.25 4.02 in/hr



C P = 9 psi X

D P = 9 psi X

E P = 9 psi X

F P = 9 psi X

G P = 9 psi X

H P = 9 psi X

I P = 9 psi X

d = 34 33 mm

i = 4.02 3.90 in/hr

w_{c2} = 19.6%

d = 31 36 mm

i = 3.66 4.25 in/hr

w_{c3} = 23.0%

x x X x

P = 10 psi

Temp. 67 deg

Hum. 91 %

Average Depth: 34 mm

Avg Rainfall Intensity: 4.02 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:25	X	X
7:28	X	X
7:31	X	X
7:34	X	X
7:37	X	X
7:40	X	X
7:43	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	2
2	3785	12
3	3785	10
4	3785	11
5	3785	9
6	3785	9
7	3785	10
8	3785	9
9	3785	9
10	3785	11
11	3785	10
12	3785	10
13	3785	11
14	3785	10
15	3785	10
16	3785	11
17	3785	10
18	3785	11
19	3785	11
20	3785	11
21	250	2
22	250	0

NOTES:

Wind: 0 mph. Direction: N . Approx 120 gallons collected.

DDRF Rainfall Testing

Slope #: 2 | **Target Rain: 6 in/hr**

Date:	14-Aug-12	Start Rain:	7:57 AM	End Rain:	8:17 AM
		Sampling interval:	0:03	End Runoff:	8:19 AM
		Rain Time (min):	20.00	Test Time (min):	22.00
Product:	Control	Descr:.	Slope G2		
Lot #:		Posts:		Spacing:	

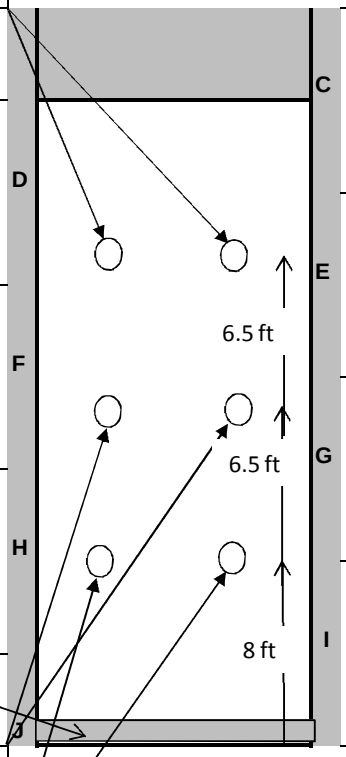
TOP OF SLOPE

(circle "x" for open valves)

Set valves to 13 psi.

w_{c1} = 24.5%

d =	53	49	mm
i =	6.26	5.79	in/hr



							x
				C	P = 9 psi		X
x							x
X	P = 9 psi						x
x							x
x				E	P = 9 psi		X
x							x
X	P = 9 psi						x
x							x
x				G	P = 9 psi		x
x							X
x	P = 9 psi						x
X							x
x				I	P = 9 psi		x
							X
							x

d =	49	54	mm
i =	5.79	6.38	in/hr

w_{c2} = 19.6%

d =	49	56	mm
i =	5.79	6.61	in/hr

w_{c3} = 23.0%

x x X x

P = 10 psi

Temp. 67 deg

Hum. 91 %

Average Depth: **52** **mm**

Avg Rainfall Intensity: **6.10** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
8:00	X	X
8:03	X	X
8:06	X	X
8:09	X	X
8:12	X	X
8:15	X	X
8:18	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	10
2	3785	8
3	3785	8
4	3785	7
5	3785	5
6	3785	5
7	3785	7
8	3785	6
9	3785	5
10	3785	6
11	3785	7
12	3785	8
13	3785	9
14	3785	8
15	3785	8
16	3785	8
17	3785	8
18	3785	8
19	3785	7
20	3785	7
21	3785	7
22	3785	0

NOTES:

Wind: 0 mph. Direction: N .

Approx: 190 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 2 in/hr**

Date: 16-Aug-12 | Start Rain: 6:52 AM | End Rain: 7:12 AM

Sampling interval: 0:03 | End Runoff: 7:14 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: Control | Descr:. Slope G2

Lot #: | Posts: | Spacing:

TOP OF SLOPE

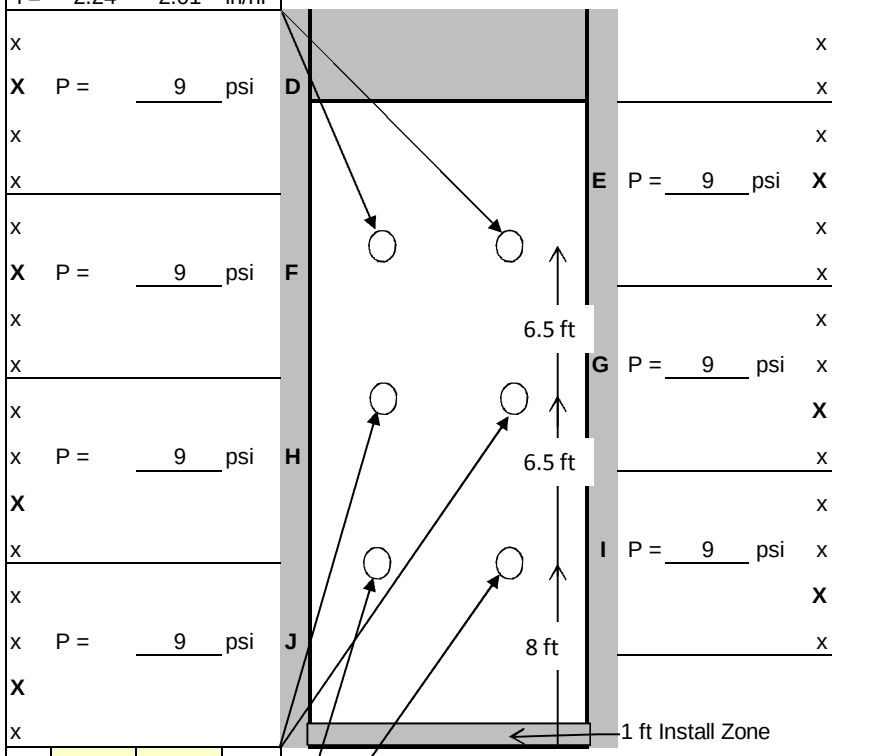
(circle "x" for open valves)

Set valves to 13 psi

w_{c1} = 24.5%

d = 19 17 mm

i = 2.24 2.01 in/hr



d = 15 17 mm

i = 1.77 2.01 in/hr

w_{c2} = 19.6%

d = 17 19 mm

i = 2.01 2.24 in/hr

w_{c3} = 23.0%

x x **X** x

P = 10 psi

Temp. 68 deg

Hum. 89 %

Average Depth: **17** **mm**

Avg Rainfall Intensity: **2.05** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
6:55	X	X
6:58	X	X
7:01	X	X
7:04	X	X
7:07	X	X
7:10	X	X
7:13	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	250	60
2	250	60
3	250	60
4	250	33
5	250	19
6	250	13
7	250	10
8	250	8
9	250	6
10	250	4
11	250	3
12	250	3
13	250	3
14	250	3
15	250	3
16	3785	33
17	3785	32
18	3785	31
19	3785	37
20	3785	34
21	3785	60
22	3785	0

NOTES:

Wind: 0 mph. Direction: N .

Approx 20 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 4 in/hr**

Date: 16-Aug-12 | Start Rain: 7:22 AM | End Rain: 7:42 AM

Sampling interval: 0:03 | End Runoff: 7:44 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: Control | Descr:. Slope G2

Lot #: | Posts: | Spacing:

TOP OF SLOPE

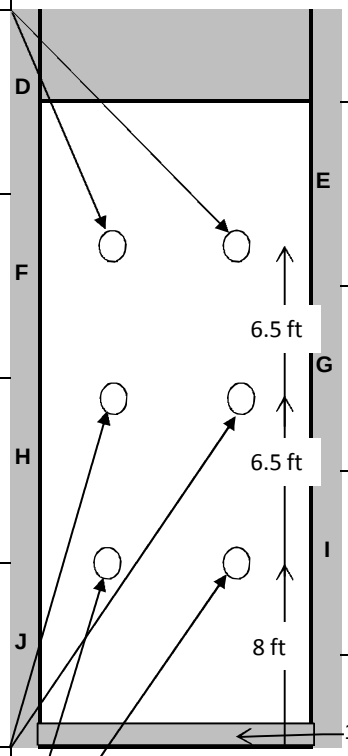
(circle "x" for open valves)

Set valves to 13 psi.

w_{c1} = 24.5%

d = 35 34 mm

i = 4.13 4.02 in/hr



x x
X P = 9 psi D x
x x
x E P = 9 psi X
x x
X P = 9 psi F x
x x
x G P = 9 psi x
x X
x P = 9 psi H x
X x
x I P = 9 psi x
x X
x P = 9 psi J x
X
x

d = 32 34 mm

i = 3.78 4.02 in/hr

w_{c2} = 19.6%

d = 32 36 mm

i = 3.78 4.25 in/hr

w_{c3} = 23.0%

x x **X** x

P = 10 psi Temp. 67 deg

Hum. 90 %

Average Depth: **34** **mm**

Avg Rainfall Intensity: **4.00** **in/hr**

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:25	X	X
7:28	X	X
7:31	X	X
7:34	X	X
7:37	X	X
7:40	X	X
7:43	X	X

Runoff Rate Measurements

Min.	Volume, mL	Seconds
1	250	2
2	3785	10
3	3785	12
4	3785	8
5	3785	9
6	3785	8
7	3785	10
8	3785	10
9	3785	10
10	3785	8
11	3785	8
12	3785	8
13	3785	9
14	3785	9
15	3785	9
16	3785	9
17	3785	10
18	3785	11
19	3785	11
20	3785	12
21	3785	20
22	3785	0

NOTES:

Wind: 0 mph. Direction: N

Approx 130 gallons collected.

DDRF Rainfall Testing

Slope #: 3 | **Target Rain: 6 in/hr**

Date: 16-Aug-12 | Start Rain: 7:55 AM | End Rain: 8:15 AM

Sampling interval: 0:03 | End Runoff: 8:17 AM

Rain Time (min): 20.00 | Test Time (min): 22.00

Product: Control | Descr:. Slope G2

Lot #: | Posts: | Spacing:

TOP OF SLOPE

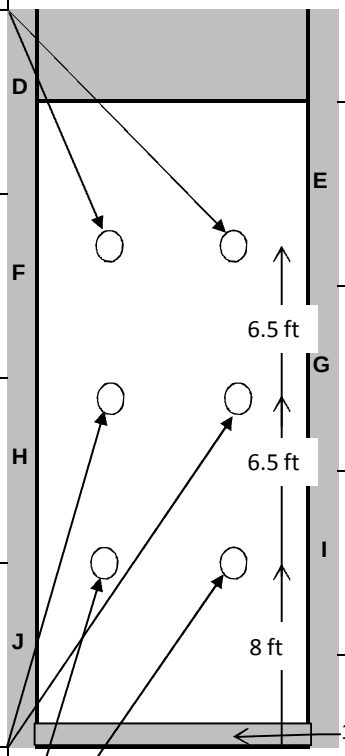
(circle "x" for open valves)

Set valves to 15 psi.

w_{c1} = 24.5%

d = 59 54 mm

i = 6.97 6.38 in/hr



x					x
X	P = 9 psi	D			x
x					x
x			E	P = 9 psi	X
x					x
X	P = 9 psi	F			x
x					x
x			G	P = 9 psi	x
x					X
x	P = 9 psi	H			x
X					x
x			I	P = 9 psi	x
x					X
x	P = 9 psi	J			x
X					
x					

d = 52 58 mm

i = 6.14 6.85 in/hr

x x **X** x

P = 10 psi | Temp. 69 deg | Hum. 83 %

w_{c2} = 19.6%

d = 45 48 mm

i = 5.31 5.67 in/hr

w_{c3} = 23.0%

Average Depth: 53 mm

Avg Rainfall Intensity: 6.22 in/hr

Sediment Concentration & Turbidity Grab Samples

Time	Sed Conc Samples Taken	Turbidity Samples Taken
7:58	X	X
8:01	X	X
8:04	X	X
8:07	X	X
8:10	X	X
8:13	X	X
8:16	X	X

Runoff Rate Measurements

Min.	Volume	Seconds
1	3785	6
2	3785	6
3	3785	6
4	3785	6
5	3785	6
6	3785	6
7	3785	6
8	3785	6
9	3785	6
10	3785	7
11	3785	6
12	3785	6
13	3785	6
14	3785	6
15	3785	6
16	3785	5
17	3785	6
18	3785	7
19	3785	6
20	3785	6
21	3785	6
22	3785	0

NOTES:

Wind: 0 mph. Direction: N .

Approx 230 galloons collected.

GSWCC_SB Data Form - Turbidities

Pond Water		
Sample Number	Test Time, minutes	NTUs - Suspended
1	20	89.1
2	20	92.8
3	20	91

Slope #1			Slope #2			Slope #3		
Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended	Sample Number	Test Time, minutes	NTUs - Suspended
2-1	3.00	7142	2-1	3.00	901	2-1	3.00	6039
2-2	6.00	9177	2-2	6.00	6718	2-2	6.00	7963
2-3	9.00	9	2-3	9.00	9	2-3	9.00	9
2-4	12.00	"	2-4	12.00	"	2-4	12.00	"
2-5	15.00	"	2-5	15.00	"	2-5	15.00	"
2-6	18.00	"	2-6	18.00	""	2-6	18.00	"
2-7	21.00	"	2-7	21.00	"	2-7	21.00	"
avg		**5443**	avg		**2543**	avg		**4670**
4-1	3.00	9	4-1	2.00	9	4-1	2.00	9
4-2	6.00	"	4-2	4.00	"	4-2	4.00	"
4-3	9.00	"	4-3	6.00	"	4-3	6.00	"
4-4	12.00	"	4-4	8.00	"	4-4	8.00	"
4-5	15.00	"	4-5	10.00	"	4-5	10.00	"
4-6	18.00	"	4-6	12.00		4-6	12.00	"
4-7	21.00	"	4-7	21.00	"	4-7	21.00	"
avg		**9**	avg		**9**	avg		**9**
6-1	3.00	9	6-1	3.00	9	6-1	3.00	"
6-2	6.00	"	6-2	6.00	"	6-2	6.00	"
6-3	9.00	"	6-3	9.00	"	6-3	9.00	"
6-4	12.00	"	6-4	12.00	"	6-4	12.00	"
6-5	15.00	"	6-5	15.00	"	6-5	15.00	"
6-6	18.00	"	6-6	18.00	"	6-6	18.00	"
6-7	21.00	"	6-7	21.00	"	6-7	21.00	"
avg		**9**	avg		**9**	avg		**#DIV/0!**

Slope #1 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.03	in/hr	avg														
14-Aug-12		2-1	3.00	359.93	168.15	153.09	151.51	1580.00	206.84	0.21	7638.75	3.00	90.85	0.97	7638.75	0.06
		2-2	6.00	375.05	190.96	154.43	148.97	5460.00	220.62	0.22	24748.44	6.00	60.57	2.59	24748.44	0.54
		2-3	9.00	383.51	177.34	155.80	150.98	4820.00	227.71	0.23	21167.27	9.00	60.57	2.97	21167.27	0.52
		2-4	12.00	380.68	183.80	154.62	149.12	5500.00	226.06	0.23	24329.82	12.00	30.28	4.04	24329.82	0.82
		2-5	15.00	363.77	197.92	160.81	150.73	10080.00	202.96	0.20	49664.96	15.00	22.00	6.16	49664.96	2.55
		2-6	18.00	356.93	170.93	160.55	150.12	10430.00	196.38	0.20	53111.31	18.00	41.00	6.08	53111.31	2.69
		2-7	21.00	337.24	171.53	156.85	150.71	6140.00	180.39	0.18	34037.36	21.00	50.01	4.62	34037.36	1.31
										AVG =	**30671.13**	22.00	0	0.83	34037.36	0.24
4.07	in/hr	avg									30671.13			**Total Solids Lost:**		**8.74**
14-Aug-12		4-1	3.00	346.17	198.39	161.98	147.51	14470.00	184.19	0.18	78560.18	3.00	11.00	13.02	78560.18	8.53
		4-2	6.00	375.07	205.06	170.40	151.31	19090.00	204.67	0.20	93272.10	6.00	8.00	18.38	93272.10	14.30
		4-3	9.00	376.15	201.77	168.33	148.51	19820.00	207.82	0.21	95370.99	9.00	9.00	20.39	95370.99	16.22
		4-4	12.00	391.96	213.16	178.43	150.65	27780.00	213.53	0.21	130098.82	12.00	8.00	19.69	130098.82	21.37
		4-5	15.00	382.64	210.15	168.61	149.48	19130.00	214.03	0.21	89379.99	15.00	9.00	20.39	89379.99	15.21
		4-6	18.00	369.56	201.57	168.66	150.99	17670.00	200.90	0.20	87954.21	18.00	13.00	16.57	87954.21	12.16
		4-7	21.00	365.25	190.00	163.60	148.08	15520.00	201.65	0.20	76965.04	21.00	24.00	11.76	76965.04	7.55
										AVG =	**93085.90**	22.00	0.00	2.50	76965.04	1.61
6.12	in/hr	avg									93085.90			**Total Solids Lost:**		**96.95**
14-Aug-12		6-1	3.00	307.13	186.81	156.87	148.88	7990.00	150.26	0.15	53174.50	3.00	5.00	18.18	53174.50	8.06
		6-2	6.00	336.38	182.21	159.05	147.99	11060.00	177.33	0.18	62369.59	6.00	6.00	34.91	62369.59	18.16
		6-3	9.00	371.46	195.56	162.74	148.21	14530.00	208.72	0.21	69614.79	9.00	6.00	30.00	69614.79	17.42
		6-4	12.00	371.97	199.48	164.88	148.54	16340.00	207.09	0.21	78902.89	12.00	6.00	33.81	78902.89	22.26
		6-5	15.00	367.65	207.00	170.03	150.22	19810.00	197.62	0.20	100242.89	15.00	6.00	31.81	100242.89	26.61
		6-6	18.00	375.49	203.26	169.96	149.67	20290.00	205.53	0.21	98720.38	18.00	6.00	33.81	98720.38	27.85
		6-7	21.00	381.23	195.95	168.53	147.86	20670.00	212.70	0.21	97179.13	21.00	7.00	29.23	97179.13	23.70
										AVG =	**80029.17**	23.00	0.00	5.00	97179.13	4.05
											80029.17			**Total Solids Lost:**		**148.12**

Slope #2 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.15	in/hr	avg														
14-Aug-12		2-1	3.00	354.85	173.45	150.89	150.68	210.00	203.96	0.20	1029.61	3.00	484.53	0.34	1029.61	0.00
		2-2	6.00	364.24	173.66	152.37	150.26	2110.00	211.87	0.21	9958.94	6.00	90.85	0.67	9958.94	0.06
		2-3	9.00	346.24	185.92	157.76	150.75	7010.00	188.48	0.19	37192.28	9.00	33.00	3.24	37192.28	1.01
		2-4	12.00	356.56	179.80	158.24	151.44	6800.00	198.32	0.20	34288.02	12.00	36.00	5.34	34288.02	1.53
		2-5	15.00	343.50	179.33	158.60	151.47	7130.00	184.90	0.18	38561.38	15.00	37.00	4.98	38561.38	1.60
		2-6	18.00	334.27	170.68	158.87	151.01	7860.00	175.40	0.18	44811.86	18.00	43.00	4.22	44811.86	1.58
		2-7	21.00	348.68	159.64	159.05	151.21	7840.00	189.63	0.19	41343.67	21.00	136.27	3.41	41343.67	1.18
										AVG =	**29597.97**	22.00	0.00	0.68	41343.67	0.24
4.02	in/hr	avg									29597.97			**Total Solids Lost:**		**7.18**
14-Aug-12		4-1	3.00	357.19	203.18	165.05	152.11	12940.00	192.14	0.19	67346.73	3.00	10.00	12.25	67346.73	6.89
		4-2	6.00	336.30	197.97	164.48	150.31	14170.00	171.82	0.17	82470.03	6.00	9.00	18.38	82470.03	12.65
		4-3	9.00	360.92	195.78	166.96	151.71	15250.00	193.96	0.19	78624.46	9.00	9.00	19.30	78624.46	12.66
		4-4	12.00	369.68	188.02	169.09	151.86	17230.00	200.59	0.20	85896.61	12.00	10.00	17.71	85896.61	12.69
		4-5	15.00	408.77	256.63	167.88	150.88	17000.00	240.89	0.24	70571.63	15.00	10.00	17.43	70571.63	10.26
		4-6	18.00	357.33	184.47	168.72	151.22	17500.00	188.61	0.19	92784.05	18.00	11.00	17.14	92784.05	13.27
		4-7	21.00	377.32	185.36	167.27	151.51	15760.00	210.05	0.21	75029.75	21.00	30.28	13.81	75029.75	8.65
										AVG =	**78960.46**	22.00	0.00	2.73	75029.75	1.71
6.10	in/hr	avg									78960.46			**Total Solids Lost:**		**78.77**
14-Aug-12		6-1	3.00	374.01	193.48	165.33	151.49	13839.00	208.68	0.21	66316.53	3.00	8.00	26.16	66316.53	14.48
		6-2	6.00	317.47	174.56	164.03	151.65	12380.00	153.44	0.15	80683.00	6.00	5.00	30.00	80683.00	20.19
		6-3	9.00	316.98	187.43	164.59	151.48	13110.00	152.39	0.15	86029.27	9.00	5.00	30.14	86029.27	21.63
		6-4	12.00	384.21	214.25	168.68	151.38	17300.00	215.53	0.22	80267.25	12.00	8.00	28.14	80267.25	18.84
		6-5	15.00	374.91	196.85	168.23	151.34	16890.00	206.68	0.21	81720.53	15.00	8.00	21.62	81720.53	14.74
		6-6	18.00	370.09	193.07	166.68	151.33	15350.00	203.41	0.20	75463.35	18.00	8.00	22.50	75463.35	14.16
		6-7	21.00	356.90	203.81	167.73	151.94	15790.00	189.17	0.19	83469.89	21.00	7.00	25.14	83469.89	17.51
										AVG =	**79135.69**	22.00	0.00	4.29	83469.89	2.98
											79135.69			**Total Solids Lost:**		**124.54**

Slope #3 - Sediment Concentration

		Sample Number	Test Time, minutes	Total Weight, g	Decanted Weight, g	Dry Weight, g	Bottle Weight, g	Dry Sediment Weight, mg	Total Collected Water Wt., g	Total Collected Volume of Water, l	Sediment Concentration, mg/l	Runoff Sampling Time	Time to Collect 1 gal	Associated Runoff, gal	Associated Sediment Conc, mg/l	Associated Solids Loss, lbs
2.05	in/hr	avg														
16-Aug-12		2-1	3.00	355.12	177.23	149.31	149.13	180.00	205.81	0.21	874.59	3.00	908.50	0.26	874.59	0.00
		2-2	6.00	342.79	178.65	152.59	150.02	2570.00	190.20	0.19	13512.09	6.00	196.84	0.49	13512.09	0.05
		2-3	9.00	351.61	184.49	153.26	150.60	2660.00	198.35	0.20	13410.64	9.00	90.85	1.35	13410.64	0.15
		2-4	12.00	359.36	184.24	154.53	151.28	3250.00	204.83	0.20	15866.82	12.00	45.42	3.25	15866.82	0.43
		2-5	15.00	359.56	188.80	154.84	148.45	6390.00	204.72	0.20	31213.36	15.00	45.42	3.96	31213.36	1.03
		2-6	18.00	356.18	175.55	158.08	151.40	6680.00	198.10	0.20	33720.34	18.00	31.00	5.28	33720.34	1.49
		2-7	21.00	356.04	172.49	156.86	146.64	10220.00	199.18	0.20	51310.37	21.00	60.01	4.73	51310.37	2.03
										AVG =	**22844.03**	22.00	0.00	0.88	51310.37	0.38
4.00	in/hr	avg									22844.03			**Total Solids Lost:**		**5.56**
16-Aug-12		4-1	3.00	355.36	196.36	158.34	148.61	9730.00	197.02	0.20	49385.85	3.00	12.00	12.40	49385.85	0.38
		4-2	6.00	353.38	211.32	160.77	147.81	12960.00	192.61	0.19	67286.23	6.00	8.00	20.12	67286.23	11.29
		4-3	9.00	366.62	236.75	162.26	147.62	14640.00	204.36	0.20	71638.29	9.00	10.00	18.66	71638.29	11.16
		4-4	12.00	360.01	194.35	164.46	148.67	15790.00	195.55	0.20	80746.61	12.00	8.00	21.66	80746.61	14.60
		4-5	15.00	344.69	184.30	164.16	149.44	14720.00	180.53	0.18	81537.69	15.00	9.00	20.39	81537.69	13.87
		4-6	18.00	366.19	197.60	163.31	147.16	16150.00	202.88	0.20	79603.71	18.00	11.00	18.69	79603.71	12.42
		4-7	21.00	344.81	196.58	165.73	151.97	13760.00	179.08	0.18	76837.17	21.00	20.00	14.42	76837.17	9.24
										AVG =	**72433.65**	22.00	0.00	2.50	76837.17	1.60
6.22	in/hr	avg									72433.65			**Total Solids Lost:**		**74.56**
16-Aug-12		6-1	3.00	377.78	203.82	163.23	148.50	14730.00	214.55	0.21	68655.33	3.00	6.00	40.00	68655.33	22.91
		6-2	6.00	354.01	180.59	162.74	150.73	12010.00	191.27	0.19	62790.82	6.00	6.00	30.00	62790.82	15.71
		6-3	9.00	320.58	179.66	158.54	147.47	11070.00	162.04	0.16	68316.47	9.00	6.00	30.00	68316.47	17.10
		6-4	12.00	366.55	177.10	160.16	145.78	14380.00	206.39	0.21	69673.92	12.00	6.00	28.46	69673.92	16.54
		6-5	15.00	363.82	198.33	162.54	148.63	13910.00	201.28	0.20	69107.71	15.00	6.00	30.00	69107.71	17.30
		6-6	18.00	365.67	231.65	163.95	150.53	13420.00	201.72	0.20	66527.86	18.00	7.00	31.05	66527.86	17.23
		6-7	21.00	374.06	214.49	163.70	148.42	15280.00	210.36	0.21	72637.38	21.00	6.00	29.23	72637.38	17.71
										AVG =	**68244.21**	22.00	0.00	5.00	72637.38	3.03
											68244.21			**Total Solids Lost:**		**127.54**

14-Aug-12

Slope #1

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.03 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	439	0.27	0.27	0.27	
2-2	2.00	151	0.20	0.20	0.48	
2-3	3.00	91	0.50	0.50	0.97	
2-4	4.00	76	0.72	0.72	1.69	
2-5	5.00	61	0.88	0.88	2.57	
2-6	6.00	61	0.99	0.99	3.56	
2-7	7.00	61	0.99	0.99	4.55	
2-8	8.00	61	0.99	0.99	5.54	
2-9	9.00	61	0.99	0.99	6.54	
2-10	10.00	45	1.13	1.13	7.67	
2-11	11.00	45	1.32	1.32	8.99	
2-12	12.00	30	1.59	1.59	10.57	
2-13	13.00	39	1.73	1.73	12.31	
2-14	14.00	25	1.87	1.87	14.18	
2-15	15.00	22	2.55	2.55	16.73	
2-16	16.00	29	2.35	2.35	19.09	
2-17	17.00	30	2.03	2.03	21.12	
2-18	18.00	41	1.69	1.69	22.81	
2-19	19.00	36	1.56	1.56	24.37	
2-20	20.00	36	1.67	1.67	26.03	
2-21	21.00	50	1.40	1.40	27.43	
2-end	22.00	0	0.83	0.83	28.26	
					28.26	**Total Collected Runoff (approx)**
4.07 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	30	3.96	3.96	3.96	
4-2	2	9	3.05	3.05	7.02	
4-3	3	11	6.00	6.00	13.02	
4-4	4	10	5.71	5.71	18.73	
4-5	5	10	6.00	6.00	24.73	
4-6	6	8	6.67	6.67	31.40	
4-7	7	10	6.67	6.67	38.06	
4-8	8	8	6.67	6.67	44.73	
4-9	9	9	7.06	7.06	51.79	
4-10	10	10	6.32	6.32	58.10	
4-11	11	9	6.32	6.32	64.42	
4-12	12	8	7.06	7.06	71.47	
4-13	13	9	7.06	7.06	78.53	
4-14	14	9	6.67	6.67	85.20	
4-15	15	9	6.67	6.67	91.86	
4-16	16	10	6.32	6.32	98.18	
4-17	17	12	5.45	5.45	103.63	
4-18	18	13	4.80	4.80	108.43	
4-19	19	16	4.14	4.14	112.57	
4-20	20	12	4.29	4.29	116.85	
4-21	21	24	3.33	3.33	120.19	
4-end	22.00	0	2.50	2.50	122.69	
					122.69	**Total Collected Runoff (approx)**
6.12 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	30	3.96	3.96	3.96	
6-2	2	6	3.31	3.31	7.27	
6-3	3	5	10.91	10.91	18.18	
6-4	4	5	12.00	12.00	30.18	
6-5	5	5	12.00	12.00	42.18	
6-6	6	6	10.91	10.91	53.08	
6-7	7	6	10.00	10.00	63.08	
6-8	8	6	10.00	10.00	73.08	
6-9	9	6	10.00	10.00	83.08	
6-10	10	5	10.91	10.91	93.99	
6-11	11	5	12.00	12.00	105.99	
6-12	12	6	10.91	10.91	116.89	
6-13	13	5	10.91	10.91	127.80	
6-14	14	6	10.91	10.91	138.71	
6-15	15	6	10.00	10.00	148.71	
6-16	16	5	10.91	10.91	159.62	
6-17	17	5	12.00	12.00	171.62	
6-18	18	6	10.91	10.91	182.52	
6-19	19	6	10.00	10.00	192.52	
6-20	20	6	10.00	10.00	202.52	
6-21	21	7	9.23	9.23	211.75	
6-end	23.00	0	5.00	5.00	216.75	
					216.75	**Total Collected Runoff (approx)**

14-Aug-12

Slope #2

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.15 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	908	0.13	0.13	0.13	
2-2	2.00	515	0.08	0.08	0.22	
2-3	3.00	485	0.12	0.12	0.34	
2-4	4.00	424	0.13	0.13	0.47	
2-5	5.00	242	0.18	0.18	0.65	
2-6	6.00	91	0.36	0.36	1.01	
2-7	7.00	61	0.79	0.79	1.80	
2-8	8.00	53	1.06	1.06	2.86	
2-9	9.00	33	1.40	1.40	4.25	
2-10	10.00	30	1.90	1.90	6.16	
2-11	11.00	37	1.79	1.79	7.95	
2-12	12.00	36	1.64	1.64	9.59	
2-13	13.00	36	1.67	1.67	11.26	
2-14	14.00	36	1.67	1.67	12.93	
2-15	15.00	37	1.64	1.64	14.57	
2-16	16.00	45	1.46	1.46	16.03	
2-17	17.00	43	1.36	1.36	17.40	
2-18	18.00	43	1.40	1.40	18.79	
2-19	19.00	44	1.38	1.38	20.17	
2-20	20.00	44	1.36	1.36	21.53	
2-21	21.00	136	0.67	0.67	22.20	
2-end	22.00	0	0.68	0.68	22.88	
					22.88	**Total Collected Runoff (approx)**
4.02 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	30	3.96	3.96	3.96	
4-2	2	12	2.84	2.84	6.80	
4-3	3	10	5.45	5.45	12.25	
4-4	4	11	5.71	5.71	17.97	
4-5	5	9	6.00	6.00	23.97	
4-6	6	9	6.67	6.67	30.63	
4-7	7	10	6.32	6.32	36.95	
4-8	8	9	6.32	6.32	43.26	
4-9	9	9	6.67	6.67	49.93	
4-10	10	11	6.00	6.00	55.93	
4-11	11	10	5.71	5.71	61.64	
4-12	12	10	6.00	6.00	67.64	
4-13	13	11	5.71	5.71	73.36	
4-14	14	10	5.71	5.71	79.07	
4-15	15	10	6.00	6.00	85.07	
4-16	16	11	5.71	5.71	90.78	
4-17	17	10	5.71	5.71	96.50	
4-18	18	11	5.71	5.71	102.21	
4-19	19	11	5.45	5.45	107.66	
4-20	20	11	5.45	5.45	113.12	
4-21	21	30	2.91	2.91	116.02	
4-end	22	0	2.73	2.73	118.75	
					118.75	**Total Collected Runoff (approx)**
6.10 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	10	12.00	12.00	12.00	
6-2	2	8	6.67	6.67	18.66	
6-3	3	8	7.50	7.50	26.16	
6-4	4	7	8.00	8.00	34.16	
6-5	5	5	10.00	10.00	44.16	
6-6	6	5	12.00	12.00	56.16	
6-7	7	7	10.00	10.00	66.16	
6-8	8	6	9.23	9.23	75.39	
6-9	9	5	10.91	10.91	86.30	
6-10	10	6	10.91	10.91	97.21	
6-11	11	7	9.23	9.23	106.43	
6-12	12	8	8.00	8.00	114.43	
6-13	13	9	7.06	7.06	121.49	
6-14	14	8	7.06	7.06	128.55	
6-15	15	8	7.50	7.50	136.05	
6-16	16	8	7.50	7.50	143.55	
6-17	17	8	7.50	7.50	151.05	
6-18	18	8	7.50	7.50	158.55	
6-19	19	7	8.00	8.00	166.55	
6-20	20	7	8.57	8.57	175.12	
6-21	21	7	8.57	8.57	183.69	
6-end	22	0	4.29	4.29	187.97	
					187.97	**Total Collected Runoff (approx)**

16-Aug-12

Slope #3

Sample Number	Test Time, minutes	Time per Gallon, sec	Runoff Rate, gal/min	Associated Runoff, gal	Cumulative Runoff, gal	
2.05 in/hr						
2	0.00	0	0.00	0.00	0.00	
2-1	1.00	908	0.13	0.13	0.13	
2-2	2.00	908	0.07	0.07	0.20	
2-3	3.00	908	0.07	0.07	0.26	
2-4	4.00	500	0.09	0.09	0.35	
2-5	5.00	288	0.15	0.15	0.50	
2-6	6.00	197	0.25	0.25	0.75	
2-7	7.00	151	0.34	0.34	1.09	
2-8	8.00	121	0.44	0.44	1.53	
2-9	9.00	91	0.57	0.57	2.10	
2-10	10.00	61	0.79	0.79	2.89	
2-11	11.00	45	1.13	1.13	4.03	
2-12	12.00	45	1.32	1.32	5.35	
2-13	13.00	45	1.32	1.32	6.67	
2-14	14.00	45	1.32	1.32	7.99	
2-15	15.00	45	1.32	1.32	9.31	
2-16	16.00	33	1.53	1.53	10.84	
2-17	17.00	32	1.85	1.85	12.68	
2-18	18.00	31	1.90	1.90	14.59	
2-19	19.00	37	1.76	1.76	16.35	
2-20	20.00	34	1.69	1.69	18.04	
2-21	21.00	60	1.28	1.28	19.32	
2-end	22.00	0	0.88	0.88	20.20	
					20.20	**Total Collected Runoff (approx)**
4.00 in/hr						
4	0	0	0.00	0.00	0.00	
4-1	1	30	3.96	3.96	3.96	
4-2	2	10	2.98	2.98	6.94	
4-3	3	12	5.45	5.45	12.40	
4-4	4	8	6.00	6.00	18.39	
4-5	5	9	7.06	7.06	25.45	
4-6	6	8	7.06	7.06	32.51	
4-7	7	10	6.67	6.67	39.18	
4-8	8	10	6.00	6.00	45.18	
4-9	9	10	6.00	6.00	51.18	
4-10	10	8	6.67	6.67	57.84	
4-11	11	8	7.50	7.50	65.34	
4-12	12	8	7.50	7.50	72.84	
4-13	13	9	7.06	7.06	79.90	
4-14	14	9	6.67	6.67	86.56	
4-15	15	9	6.67	6.67	93.23	
4-16	16	9	6.67	6.67	99.90	
4-17	17	10	6.32	6.32	106.21	
4-18	18	11	5.71	5.71	111.92	
4-19	19	11	5.45	5.45	117.38	
4-20	20	12	5.22	5.22	122.60	
4-21	21	20	3.75	3.75	126.34	
4-end	22	0	2.50	2.50	128.84	
					128.84	**Total Collected Runoff (approx)**
6.22 in/hr						
6	0	0	0.00	0.00	0.00	
6-1	1	6	20.00	20.00	20.00	
6-2	2	6	10.00	10.00	30.00	
6-3	3	6	10.00	10.00	40.00	
6-4	4	6	10.00	10.00	49.99	
6-5	5	6	10.00	10.00	59.99	
6-6	6	6	10.00	10.00	69.99	
6-7	7	6	10.00	10.00	79.99	
6-8	8	6	10.00	10.00	89.99	
6-9	9	6	10.00	10.00	99.99	
6-10	10	7	9.23	9.23	109.22	
6-11	11	6	9.23	9.23	118.45	
6-12	12	6	10.00	10.00	128.45	
6-13	13	6	10.00	10.00	138.45	
6-14	14	6	10.00	10.00	148.45	
6-15	15	6	10.00	10.00	158.44	
6-16	16	5	10.91	10.91	169.35	
6-17	17	6	10.91	10.91	180.26	
6-18	18	7	9.23	9.23	189.49	
6-19	19	6	9.23	9.23	198.72	
6-20	20	6	10.00	10.00	208.72	
6-21	21	6	10.00	10.00	218.72	
6-end	22	0	5.00	5.00	223.72	
					223.72	**Total Collected Runoff (approx)**

WATER CONTENT DETERMINATION

Slope No.	1	2	3
Test Date:	14-Aug-12	14-Aug-12	16-Aug-12
Avg Moisture Content:	**22.36%**	**25.48%**	**24.62%**

Location	T-1	T-2	T-3
Wt. Of cup + wet soil, g	46.69	253.18	253.18
Wt. Of cup + dry soil, g	41.13	246.26	245.74
Wt. Of cup, g	18.43	217.11	217.15
Wt. Of dry soil, g	22.7	29.15	28.59
Wt. Of water, g	5.56	6.92	7.44
Water Content, w%	24.5%	23.7%	26.0%

Location	M-1	M-2	M-3
Wt. Of cup + wet soil, g	29.14	260.21	252.24
Wt. Of cup + dry soil, g	25.07	251.24	245.39
Wt. Of cup, g	4.3	216.01	216.01
Wt. Of dry soil, g	20.77	35.23	29.38
Wt. Of water, g	4.07	8.97	6.85
Water Content, w%	19.6%	25.5%	23.3%

Location	B-1	B-2	B-3
Wt. Of cup + wet soil, g	37.34	252.63	244.45
Wt. Of cup + dry soil, g	31.27	245.017	239.06
Wt. Of cup, g	4.86	217.08	217.08
Wt. Of dry soil, g	26.41	27.937	21.98
Wt. Of water, g	6.07	7.613	5.39
Water Content, w%	23.0%	27.3%	24.5%

Soil Loss Data

Slope No.	1	2	3
Test Date:	14-Aug-12	14-Aug-12	16-Aug-12
Total Soil Loss	**248.13**	**206.60**	**202.40**

Sample 1		1-1	2-1	3-1
Total Sample Wet Weight, g		3691.0	2996.4	2633.2
Sub-Sample	Wt. Of cup + wet soil, g	3691.0	2996.4	2633.2
	Wt. Of cup + dry soil, g	3691.0	2996.4	2633.2
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	3691	2996.4	2633.2
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		8.130	6.600	5.800

Sample 2		1-2	2-2	3-2
Total Sample Wet Weight, g		42222	35412	32778.8
Sub-Sample	Wt. Of cup + wet soil, g	42222	35412	32778.8
	Wt. Of cup + dry soil, g	42222	35412	32778.8
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	42222	35412	32778.8
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		93.000	78.000	72.200

Sample 3		1-3	2-3	3-3
Total Sample Wet Weight, g		66738	55388	56477.6
Sub-Sample	Wt. Of cup + wet soil, g	66738	55388	56477.6
	Wt. Of cup + dry soil, g	66738	55388	56477.6
	Wt. Of cup, g	0	0	0
	Wt. Of dry soil, g	66738	55388	56477.6
	Wt. Of water, g	0	0	0
	Water Content, w%	0.0%	0.0%	0.0%
Total Sample Dry Weight, lb		147.000	122.000	124.400

ASTM D7208

Date: 5/14/12 | Start Time: 3:58 PM | End Time: 4:28 PM

Soil: Sandy Clay | Target Flow (cfs): 0.50 | Slope: 5%

60 ft long flume | 40 ft test section | 2 ft wide flume

SRD: Straw Bales | **Installation:** Wooden Stakes

TEST DATA

1 2 3 — FLOW

eir width (ft) = 2

0 ft C D E F G H — 5 ft — 10 ft — 15 ft — 20 ft — 25 ft — 30 ft — 35 ft — 40 ft

Outlet Weir								Weir						Channel Targets	
Water Depth, in								0.00						0.00	
Water Velocity, ft/s								0.00						0.00	
Flow Rate, cfs	0.00							0.00	0.00					0.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	7.510	7.781	8.031	8.042	8.042	8.052	8.031	7.844	7.583	31.696			2.96		8.0
To eroded Surface Elev, ft	7.510	7.729	8.073	8.063	8.083	8.094	8.063	7.896	7.583	31.776		Vavg (fps) =	2.96	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035	0.104	navg =	0.021		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.042	-0.021	-0.042	-0.042	-0.031	-0.052	0.000	-0.115	-0.344	Flow (cfs) =	0.50	0.26	0.08
Avg Bottom Gain, ft	0.01			Avg Clopper Soil Loss, ft				-0.03							
Cross-section 2	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	7.865	8.063	8.292	8.302	8.313	8.292	8.250	7.948	7.740	32.622			3.08		8.3
To eroded Surface Elev, ft	7.875	8.073	8.292	8.396	8.406	8.344	8.281	8.010	7.729	32.809		Vavg (fps) =	3.08	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.002	0.005	navg =	0.022		Water Depth (ft)
Clopper Soil Loss, ft	-0.010	-0.010	0.000	-0.094	-0.094	-0.052	-0.031	-0.062	0.000	-0.189	-0.568	Flow (cfs) =	0.50	0.29	0.09
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.04							
Cross-section 3	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	8.104	8.365	8.542	8.583	8.594	8.573	8.542	8.260	8.031	33.769			2.37		8.6
To eroded Surface Elev, ft	8.083	8.344	8.594	8.667	8.688	8.625	8.563	8.344	8.021	33.951		Vavg (fps) =	2.37	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.021	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.019	0.057	navg =	0.031		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.052	-0.083	-0.094	-0.052	-0.021	-0.083	0.000	-0.201	-0.604	Flow (cfs) =	0.50	0.32	0.10
Avg Bottom Gain, ft	0.01			Avg Clopper Soil Loss, ft				-0.04							
Cross-section 4	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	8.427	8.677	8.917	8.958	8.958	8.938	8.917	8.688	8.396	35.241			0.23		8.7
To eroded Surface Elev, ft	8.417	8.698	8.979	9.021	9.021	8.969	8.938	8.688	8.406	35.366		Vavg (fps) =	0.23	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.005	navg =	0.695		Water Depth (ft)
Clopper Soil Loss, ft	0.000	-0.021	-0.063	-0.063	-0.063	-0.031	-0.021	0.000	-0.010	-0.127	-0.380	Flow (cfs) =	0.50	1.04	0.33
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.03							
Cross-section 5	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	8.740	9.010	9.240	9.271	9.313	9.281	9.260	9.083	9.802	36.792			0.1		8.7
To eroded Surface Elev, ft	8.760	9.229	9.271	9.302	9.271	9.240	9.146	9.115	8.885	36.760		Vavg (fps) =	0.10	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.042	0.042	0.115	0.000	0.917	0.233	0.698	navg =	2.375		Water Depth (ft)
Clopper Soil Loss, ft	-0.021	-0.219	-0.031	-0.031	0.000	0.000	0.000	-0.031	0.000	-0.201	-0.604	Flow (cfs) =	0.50	1.88	0.60
Avg Bottom Gain, ft	0.12			Avg Clopper Soil Loss, ft				-0.04							
Cross-section 6	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	8.938	9.188	9.469	9.500	9.510	9.500	9.490	9.323	9.031	37.491			0.1		8.6
To eroded Surface Elev, ft	8.979	9.177	9.438	9.208	9.208	9.344	9.271	9.271	9.094	36.984		Vavg (fps) =	0.10	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.010	0.031	0.292	0.302	0.156	0.219	0.052	0.000	0.524	1.573	navg =	2.429		Water Depth (ft)
Clopper Soil Loss, ft	-0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.063	-0.017	-0.052	Flow (cfs) =	0.13	1.95	0.63
Avg Bottom Gain, ft	0.12			Avg Clopper Soil Loss, ft				-0.01							
Cross-section 7	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	9.125	9.365	9.573	9.646	9.677	9.823	9.646	9.458	9.198	38.214			0.3		9.4
To eroded Surface Elev, ft	9.188	9.813	9.771	9.750	9.750	9.708	9.604	9.531	9.198	38.641		Vavg (fps) =	0.30	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.115	0.042	0.000	0.000	0.090	0.271	navg =	0.532		Water Depth (ft)
Clopper Soil Loss, ft	-0.063	-0.448	-0.198	-0.104	-0.073	0.000	0.000	-0.073	0.000	-0.517	-1.552	Flow (cfs) =	0.20	1.04	0.33
Avg Bottom Gain, ft	0.02			Avg Clopper Soil Loss, ft				-0.11							
Cross-section 8	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	9.302	9.521	9.792	9.833	9.854	9.823	9.802	9.625	9.375	38.797			2.65		9.7
To eroded Surface Elev, ft	9.292	9.531	10.104	10.094	9.938	9.917	9.802	9.667	9.333	39.191		Vavg (fps) =	2.65	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.042	0.009	0.026	navg =	0.047		Water Depth (ft)
Clopper Soil Loss, ft	0.000	-0.010	-0.313	-0.260	-0.083	-0.094	0.000	-0.042	0.000	-0.403	-1.208	Flow (cfs) =	1.21	0.71	0.23
Avg Bottom Gain, ft	0.01			Avg Clopper Soil Loss, ft				-0.09							
Cross-section 9	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	9.604	9.833	10.094	10.146	10.208	10.167	10.104	9.906	9.667	40.049			3.07		10.7
To eroded Surface Elev, ft	9.615	9.823	10.198	10.448	10.823	10.833	10.385	9.896	9.635	41.010		Vavg (fps) =	3.07	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.010	0.031	0.019	0.057	navg =	0.026		Water Depth (ft)
Clopper Soil Loss, ft	-0.010	0.000	-0.104	-0.302	-0.615	-0.667	-0.281	0.000	0.000	-0.981	-2.943	Flow (cfs) =	0.70	0.36	0.11
Avg Bottom Gain, ft	0.01			Avg Clopper Soil Loss, ft				-0.22							

										Volume			
Soil Gain, in	0.002	0.005	0.000	0.000	0.002	0.002	0.006	0.001	0.057			Avg Bottom Gain per Xsection, ft =	**0.006**
Clopper Soil Loss, in	-0.002	-0.015	-0.034	-0.048	-0.056	-0.053	-0.022	-0.015	-0.001	[ft³]	[in]	Avg Clopper Soil Loss per Xsection, ft =	**-0.220**

Trapezoidal Analysis

Original Surface Elev	865.087	**1 thru 6:**	X-Section Spacing, ft =	5		Original Surface Elev	389.640			**7 thru 9:**	X-Section Spacing, ft =	5			
Eroded Surface Elev	866.337		Test Section Length, ft =	40		Eroded Surface Elev	395.082				Test Section Length, ft =	40			
Soil Gain	2.674	0.201	gauge spacing, ft =	0.5		Soil Gain	0.317	0.024			gauge spacing, ft =	0.5			
CSLI	-3.924	-0.294	channel width measured, ft =	4		CSLI	-5.760	-0.432			channel width measured, ft =	4			

TYPICAL TEST PICTURES

0.5 cfs Flow




Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding with Some Underflow




Increased Ponding, Start Overtopping, Increased Underflow




End-of-test and Post-test With Undermined Bale Removed

ASTM D7208

Date: 7/3/12 | Start Time: 4:30 PM | End Time: 5:00 PM

Soil: Sandy Clay | Target Flow (cfs): 0.50 | Slope: 5%

60 ft long flume | 40 ft test section | 2 ft wide flume

SRD: Straw Bales | **Installation:** Wooden Stakes / NRCS Install

1 2 3 FLOW

eir width (ft) = 2

0 ft C D E F G H

5 ft

10 ft

15 ft

20 ft

25 ft

30 ft

35 ft

40 ft

TEST DATA

Outlet Weir									Weir						Channel Targets	
Water Depth, in									1.50						0.00	
Water Velocity, ft/s									0.00						0.00	
Flow Rate, cfs	0.00								0.00	0.00					0.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.880	2.149	2.352	2.382	2.379	2.359	2.326	2.139	1.854	8.994			3		2.3	
To eroded Surface Elev, ft	1.880	2.149	2.392	2.402	2.385	2.362	2.343	2.139	1.854	9.030		Vavg (fps) =	3.00	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.039	-0.020	-0.007	-0.003	-0.016	0.000	0.000	-0.036	-0.108	Flow (cfs) =	0.50	0.26	0.08	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 2	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.123	2.343	2.595	2.612	2.631	2.618	2.608	2.359	2.149	9.944			3.1		2.6	
To eroded Surface Elev, ft	2.123	2.365	2.602	2.621	2.644	2.625	2.615	2.382	2.149	9.995		Vavg (fps) =	3.10	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	-0.023	-0.007	-0.010	-0.013	-0.007	-0.007	-0.023	0.000	-0.050	-0.151	Flow (cfs) =	0.50	0.26	0.08	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 3	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.946	2.215	2.398	2.428	2.454	2.448	2.431	2.208	1.942	9.274			1.61		2.0	
To eroded Surface Elev, ft	1.969	2.247	2.375	2.402	2.425	2.461	2.484	2.208	1.965	9.295		Vavg (fps) =	1.61	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.023	0.026	0.030	0.000	0.000	0.000	0.000	0.035	0.105	navg =	0.120		Water Depth (ft)	
Clopper Soil Loss, ft	-0.023	-0.033	0.000	0.000	0.000	-0.013	-0.052	0.000	-0.023	-0.056	-0.167	Flow (cfs) =	0.50	1.38	0.44	
Avg Bottom Gain, ft	0.01			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 4	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.988	2.238	2.454	2.500	2.520	2.513	2.497	2.270	2.037	9.508			0.78		1.9	
To eroded Surface Elev, ft	2.073	2.352	2.398	2.470	2.431	2.402	2.461	2.349	2.060	9.501		Vavg (fps) =	0.78	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.056	0.030	0.089	0.112	0.036	0.000	0.000	0.154	0.463	navg =	0.280		Water Depth (ft)	
Clopper Soil Loss, ft	-0.085	-0.115	0.000	0.000	0.000	0.000	0.000	-0.079	-0.023	-0.147	-0.441	Flow (cfs) =	0.50	1.66	0.53	
Avg Bottom Gain, ft	0.04			Avg Clopper Soil Loss, ft				-0.03								
Cross-section 5	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.683	1.919	2.152	2.198	2.228	2.228	2.215	1.975	1.775	8.321			0.16		1.3	
To eroded Surface Elev, ft	1.686	1.923	2.103	2.156	2.195	2.172	2.077	1.939	1.798	8.165		Vavg (fps) =	0.16	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.049	0.043	0.033	0.056	0.138	0.036	0.000	0.163	0.489	navg =	1.858		Water Depth (ft)	
Clopper Soil Loss, ft	-0.003	-0.003	0.000	0.000	0.000	0.000	0.000	0.000	-0.023	-0.007	-0.020	Flow (cfs) =	0.50	2.64	0.85	
Avg Bottom Gain, ft	0.04			Avg Clopper Soil Loss, ft				0.00								
Cross-section 6	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.785	2.054	2.306	2.336	2.369	2.339	2.280	2.093	1.844	8.805			0.01		1.3	
To eroded Surface Elev, ft	1.834	2.047	2.241	2.254	2.267	2.241	2.215	2.054	1.847	8.585		Vavg (fps) =	0.01	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.007	0.066	0.082	0.102	0.098	0.066	0.039	0.000	0.229	0.686	navg =	32.217		Water Depth (ft)	
Clopper Soil Loss, ft	-0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.003	-0.009	-0.026	Flow (cfs) =	0.02	2.98	0.95	
Avg Bottom Gain, ft	0.05			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 7	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.608	1.860	2.083	2.159	2.208	2.205	2.159	1.975	1.742	8.174			2.4		2.1	
To eroded Surface Elev, ft	1.608	1.864	2.126	2.205	2.247	2.238	2.208	1.975	1.742	8.273		Vavg (fps) =	2.40	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.040		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	-0.003	-0.043	-0.046	-0.039	-0.033	-0.049	0.000	0.000	-0.098	-0.295	Flow (cfs) =	0.74	0.48	0.15	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 8	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.939	2.215	2.408	2.467	2.487	2.470	2.421	2.159	1.932	9.291			2.9		2.4	
To eroded Surface Elev, ft	1.939	2.215	2.464	2.530	2.539	2.497	2.421	2.159	1.932	9.386		Vavg (fps) =	2.90	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.030		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.056	-0.062	-0.052	-0.026	0.000	0.000	0.000	-0.095	-0.285	Flow (cfs) =	0.76	0.41	0.13	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 9	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.854	2.087	2.316	2.346	2.339	2.316	2.270	2.018	1.775	8.758			2.8		2.3	
To eroded Surface Elev, ft	1.854	2.087	2.333	2.398	2.395	2.346	2.287	2.018	1.775	8.842		Vavg (fps) =	2.80	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.025		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.016	-0.052	-0.056	-0.030	-0.016	0.000	0.000	-0.084	-0.253	Flow (cfs) =	0.55	0.31	0.10	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								

										Volume			
Soil Gain, in	0.000	0.000	0.007	0.006	0.008	0.009	0.010	0.002	0.000	[ft³]	[in]	Avg Bottom Gain per Xsection, ft =	**0.000**
Clopper Soil Loss, in	-0.006	-0.010	-0.007	-0.008	-0.007	-0.004	-0.005	-0.006	-0.004			Avg Clopper Soil Loss per Xsection, ft =	**-0.019**

Trapezoidal Analysis															
Original Surface Elev	229.738	**1 thru 6:**	X-Section Spacing, ft =	5	Original Surface Elev	88.786		**7 thru 9:**	X-Section Spacing, ft =	5					
Eroded Surface Elev	228.817		Test Section Length, ft =	40	Eroded Surface Elev	89.719			Test Section Length, ft =	40					
Soil Gain	2.332	0.175	gauge spacing, ft =	0.5	Soil Gain	0.000	0.000		gauge spacing, ft =	0.5					
CSLI	-1.411	-0.106	hannel width measured, ft =	4	CSLI	-0.932	-0.070		channel width measured, ft =	4					

TYPICAL TEST PICTURES

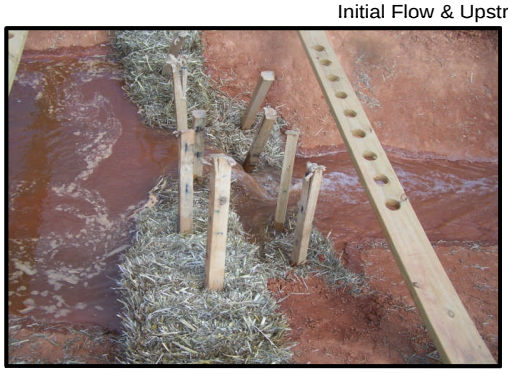
0.5 cfs Flow (Enhanced NRCS Installation)




Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding Starting




Increased Ponding and Overtopping. No Apparent Underflow




End-of-test and Post-test With Upstream Sediment Deposition and Modest Downstream Scour

ASTM D7208

Date: 6/7/12 | Start Time: 3:58 PM | End Time: 4:28 PM

Soil: Sandy Clay | Target Flow (cfs): 0.50 | Slope: 5%

60 ft long flume | 40 ft test section | 2 ft wide flume

SRD: Straw Bales | **Installation:** Wooden Stakes

TEST DATA

1 2 3 FLOW

eir width (ft) = 2

0 ft C D E F G H

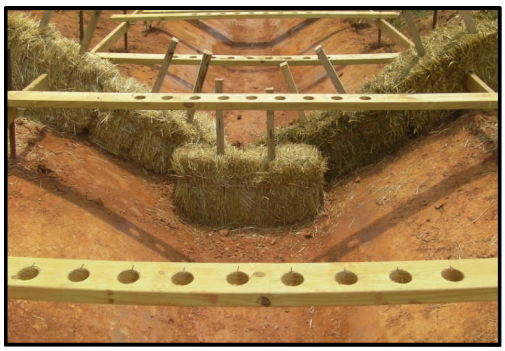
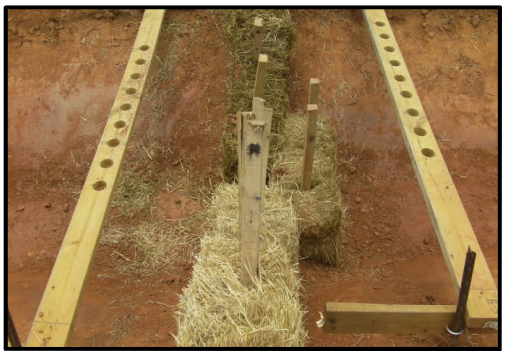
Outlet Weir								Weir						Channel Targets	
Water Depth, in								0.00						0.00	
Water Velocity, ft/s								0.00						0.00	
Flow Rate, cfs	0.00							0.00	0.00					0.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.873	2.077	2.333	2.356	2.362	2.339	2.283	2.047	1.808	8.819			2.98		2.3
To eroded Surface Elev, ft	1.864	2.113	2.388	2.369	2.362	2.411	2.323	2.051	1.801	8.931		Vavg (fps) =	2.98	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.003	0.008	navg =	0.020		Water Depth (ft)
Clopper Soil Loss, ft	0.000	-0.036	-0.056	-0.013	0.000	-0.072	-0.039	-0.003	0.000	-0.115	-0.344	Flow (cfs) =	0.50	0.25	0.08
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02							
Cross-section 2	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.969	2.185	2.454	2.503	2.552	2.451	2.421	2.149	1.942	9.320			2.43		2.3
To eroded Surface Elev, ft	1.978	2.211	2.470	2.513	2.533	2.487	2.408	2.185	1.939	9.388		Vavg (fps) =	2.43	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.020	0.000	0.013	0.000	0.003	0.011	0.034	navg =	0.056		Water Depth (ft)
Clopper Soil Loss, ft	-0.010	-0.026	-0.016	-0.010	0.000	-0.036	0.000	-0.036	0.000	-0.079	-0.238	Flow (cfs) =	0.50	0.82	0.26
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01							
Cross-section 3	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	2.274	2.507	2.530	2.546	2.539	2.493	2.267	2.231	2.021	9.679			1.85		2.3
To eroded Surface Elev, ft	1.991	2.247	2.516	2.618	2.635	2.589	2.411	2.231	2.014	9.645		Vavg (fps) =	1.85	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.282	0.259	0.013	0.000	0.000	0.000	0.000	0.000	0.007	0.225	0.676	navg =	0.092		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.072	-0.095	-0.095	-0.144	0.000	0.000	-0.191	-0.574	Flow (cfs) =	1.36	1.15	0.37
Avg Bottom Gain, ft	0.06			Avg Clopper Soil Loss, ft				-0.05							
Cross-section 4	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.785	2.024	2.280	2.323	2.333	2.306	2.283	2.054	1.781	8.698			1.8		1.8
To eroded Surface Elev, ft	1.765	2.087	2.316	2.421	2.415	2.205	2.182	2.051	1.801	8.741		Vavg (fps) =	1.80	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.020	0.000	0.000	0.000	0.000	0.102	0.102	0.003	0.000	0.107	0.322	navg =	0.127		Water Depth (ft)
Clopper Soil Loss, ft	0.000	-0.062	-0.036	-0.098	-0.082	0.000	0.000	0.000	-0.020	-0.150	-0.449	Flow (cfs) =	2.04	1.77	0.57
Avg Bottom Gain, ft	0.03			Avg Clopper Soil Loss, ft				-0.03							
Cross-section 5	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.988	2.264	2.500	2.572	2.592	2.566	2.549	2.343	2.093	9.723			0.41		1.9
To eroded Surface Elev, ft	1.995	2.283	2.493	2.421	2.415	2.362	2.398	2.303	2.073	9.360		Vavg (fps) =	0.41	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.007	0.151	0.177	0.203	0.151	0.039	0.020	0.377	1.132	navg =	0.530		Water Depth (ft)
Clopper Soil Loss, ft	-0.007	-0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.014	-0.043	Flow (cfs) =	0.43	1.65	0.53
Avg Bottom Gain, ft	0.08			Avg Clopper Soil Loss, ft				0.00							
Cross-section 6	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.788	1.975	2.123	2.270	2.323	2.333	2.316	2.080	1.860	8.634			1.43		2.3
To eroded Surface Elev, ft	1.755	1.962	2.402	2.425	2.372	2.418	2.375	2.080	1.867	8.910		Vavg (fps) =	1.43	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.033	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.043	navg =	0.048		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.279	-0.154	-0.049	-0.085	-0.059	0.000	-0.007	-0.290	-0.869	Flow (cfs) =	0.27	0.30	0.10
Avg Bottom Gain, ft	0.01			Avg Clopper Soil Loss, ft				-0.07							
Cross-section 7	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	2.087	2.372	2.589	2.664	2.667	2.664	2.621	2.375	2.129	10.045			1.06		2.7
To eroded Surface Elev, ft	2.083	2.365	2.776	2.789	2.779	2.726	2.690	2.356	2.123	10.273		Vavg (fps) =	1.06	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.003	0.007	0.000	0.000	0.000	0.000	0.000	0.020	0.007	0.019	0.057	navg =	0.070		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.187	-0.125	-0.112	-0.062	-0.069	0.000	0.000	-0.247	-0.741	Flow (cfs) =	0.22	0.33	0.10
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.06							
Cross-section 8	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.604	1.854	2.123	2.165	2.198	2.195	2.156	1.932	1.677	8.136			1.81		2.2
To eroded Surface Elev, ft	1.598	1.844	2.136	2.408	2.369	2.313	2.290	1.932	1.686	8.477		Vavg (fps) =	1.81	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.023	navg =	0.051		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.013	-0.243	-0.171	-0.118	-0.135	0.000	-0.010	-0.348	-1.045	Flow (cfs) =	0.53	0.46	0.15
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.08							
Cross-section 9	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.916	2.165	2.418	2.454	2.477	2.464	2.461	2.215	1.965	9.297			2.71		2.5
To eroded Surface Elev, ft	1.919	2.169	2.408	2.592	2.549	2.628	2.612	2.215	1.975	9.574		Vavg (fps) =	2.71	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.010	navg =	0.019		Water Depth (ft)
Clopper Soil Loss, ft	-0.003	-0.003	0.000	-0.138	-0.072	-0.164	-0.151	0.000	-0.010	-0.280	-0.840	Flow (cfs) =	0.34	0.19	0.06
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.06							

										Volume			
Soil Gain, in	0.018	0.015	0.002	0.008	0.011	0.017	0.015	0.002	0.002			Avg Bottom Gain per Xsection, ft =	**0.001**
Clopper Soil Loss, in	-0.001	-0.008	-0.007	-0.032	-0.024	-0.027	-0.026	-0.002	-0.002	[ft³]	[in]	Avg Clopper Soil Loss per Xsection, ft =	**-0.060**

Trapezoidal Analysis															
Original Surface Elev	230.733	**1 thru 6:**	X-Section Spacing, ft =	5		Original Surface Elev	89.039		**7 thru 9:**	X-Section Spacing, ft =	5		
Eroded Surface Elev	230.270		Test Section Length, ft =	40		Eroded Surface Elev	92.004			Test Section Length, ft =	40		
Soil Gain	3.649	0.274	gauge spacing, ft =	0.5		Soil Gain	0.094	0.007		gauge spacing, ft =	0.5		
CSLI	-3.185	-0.239	hannel width measured, ft =	4		CSLI	-3.059	-0.229		channel width measured, ft =	4		

TYPICAL TEST PICTURES

0.5 cfs Flow (Retest)

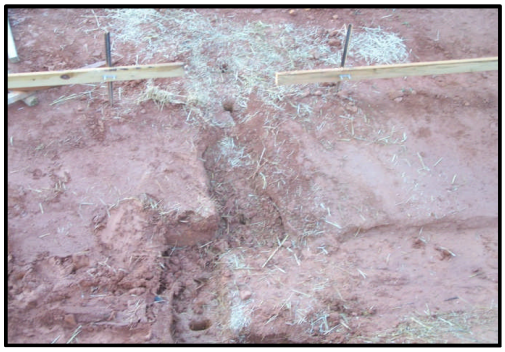
Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding




Increased Ponding and Undermining

End-of-test and Post-test condition.

ASTM D7208

Date: 7/3/12 | Start Time: 4:30 PM | End Time: 5:00 PM

Soil: Sandy Clay | Target Flow (cfs): 0.50 | Slope: 5%

60 ft long flume | 40 ft test section | **SRD:** Straw Bales | **Installation:** Wooden Stakes / NRCS Install

2 ft wide flume

1 2 3 — FLOW

ir width (ft) = 2

0 ft C D E F G H

5 ft

10 ft

15 ft

20 ft

25 ft

30 ft

35 ft

40 ft

TEST DATA

Outlet Weir									Weir						Channel Targets	
Water Depth, in									1.50						0.00	
Water Velocity, ft/s									0.00						0.00	
Flow Rate, cfs	0.00								0.00	0.00					0.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
Surface Elev, ft	1.880	2.149	2.352	2.382	2.379	2.359	2.326	2.139	1.854	8.994			3		2.3	
To eroded Surface Elev, ft	1.880	2.149	2.392	2.402	2.385	2.362	2.343	2.139	1.854	9.030		Vavg (fps) =	3.00	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021			
Clopper Soil Loss, ft	0.000	0.000	-0.039	-0.020	-0.007	-0.003	-0.016	0.000	0.000	-0.036	-0.108	Flow (cfs) =	0.50	0.26	0.08	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 2	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.123	2.343	2.595	2.612	2.631	2.618	2.608	2.359	2.149	9.944			3.1		2.6	
To eroded Surface Elev, ft	2.123	2.365	2.602	2.621	2.644	2.625	2.615	2.382	2.149	9.995		Vavg (fps) =	3.10	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020			
Clopper Soil Loss, ft	0.000	-0.023	-0.007	-0.010	-0.013	-0.007	-0.007	-0.023	0.000	-0.050	-0.151	Flow (cfs) =	0.50	0.26	0.08	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 3	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.946	2.215	2.398	2.428	2.454	2.448	2.431	2.208	1.942	9.274			1.61		2.0	
To eroded Surface Elev, ft	1.969	2.247	2.375	2.402	2.425	2.461	2.484	2.208	1.965	9.295		Vavg (fps) =	1.61	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.023	0.026	0.030	0.000	0.000	0.000	0.000	0.035	0.105	navg =	0.120			
Clopper Soil Loss, ft	-0.023	-0.033	0.000	0.000	0.000	-0.013	-0.052	0.000	-0.023	-0.056	-0.167	Flow (cfs) =	0.50	1.38	0.44	
Avg Bottom Gain, ft	0.01			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 4	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.988	2.238	2.454	2.500	2.520	2.513	2.497	2.270	2.037	9.508			0.78		1.9	
To eroded Surface Elev, ft	2.073	2.352	2.398	2.470	2.431	2.402	2.461	2.349	2.060	9.501		Vavg (fps) =	0.78	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.056	0.030	0.089	0.112	0.036	0.000	0.000	0.154	0.463	navg =	0.280			
Clopper Soil Loss, ft	-0.085	-0.115	0.000	0.000	0.000	0.000	0.000	-0.079	-0.023	-0.147	-0.441	Flow (cfs) =	0.50	1.66	0.53	
Avg Bottom Gain, ft	0.04			Avg Clopper Soil Loss, ft				-0.03								
Cross-section 5	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.683	1.919	2.152	2.198	2.228	2.228	2.215	1.975	1.775	8.321			0.16		1.3	
To eroded Surface Elev, ft	1.686	1.923	2.103	2.156	2.195	2.172	2.077	1.939	1.798	8.165		Vavg (fps) =	0.16	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.049	0.043	0.033	0.056	0.138	0.036	0.000	0.163	0.489	navg =	1.858			
Clopper Soil Loss, ft	-0.003	-0.003	0.000	0.000	0.000	0.000	0.000	0.000	-0.023	-0.007	-0.020	Flow (cfs) =	0.50	2.64	0.85	
Avg Bottom Gain, ft	0.04			Avg Clopper Soil Loss, ft				0.00								
Cross-section 6	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.785	2.054	2.306	2.336	2.369	2.339	2.280	2.093	1.844	8.805			0.001		1.3	
To eroded Surface Elev, ft	1.834	2.047	2.241	2.254	2.267	2.241	2.215	2.054	1.847	8.585		Vavg (fps) =	0.00	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.007	0.066	0.082	0.102	0.098	0.066	0.039	0.000	0.229	0.686	navg =	322.173			
Clopper Soil Loss, ft	-0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.003	-0.009	-0.026	Flow (cfs) =	0.00	2.98	0.95	
Avg Bottom Gain, ft	0.05			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 7	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.608	1.860	2.083	2.159	2.208	2.205	2.159	1.975	1.742	8.174			2.4		2.1	
To eroded Surface Elev, ft	1.608	1.864	2.126	2.205	2.247	2.238	2.208	1.975	1.742	8.273		Vavg (fps) =	2.40	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.040			
Clopper Soil Loss, ft	0.000	-0.003	-0.043	-0.046	-0.039	-0.033	-0.049	0.000	0.000	-0.098	-0.295	Flow (cfs) =	0.74	0.48	0.15	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 8	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.939	2.215	2.408	2.467	2.487	2.470	2.421	2.159	1.932	9.291			2.9		2.4	
To eroded Surface Elev, ft	1.939	2.215	2.464	2.530	2.539	2.497	2.421	2.159	1.932	9.386		Vavg (fps) =	2.90	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.030			
Clopper Soil Loss, ft	0.000	0.000	-0.056	-0.062	-0.052	-0.026	0.000	0.000	0.000	-0.095	-0.285	Flow (cfs) =	0.76	0.41	0.13	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 9	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.854	2.087	2.316	2.346	2.339	2.316	2.270	2.018	1.775	8.758			2.8		2.3	
To eroded Surface Elev, ft	1.854	2.087	2.333	2.398	2.395	2.346	2.287	2.018	1.775	8.842		Vavg (fps) =	2.80	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.025			
Clopper Soil Loss, ft	0.000	0.000	-0.016	-0.052	-0.056	-0.030	-0.016	0.000	0.000	-0.084	-0.253	Flow (cfs) =	0.55	0.31	0.10	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Avg Soil Gain, ft	0.000	0.000	0.018	0.014	0.022	0.024	0.025	0.005	0.000	**Volume**		Avg Bottom Gain per Xsection, ft =			0.000	
Avg Clopper Soil Loss, ft	-0.016	-0.025	-0.017	-0.021	-0.018	-0.011	-0.013	-0.015	-0.010	[ft³]	[in]	Avg Clopper Soil Loss per Xsection, ft =			-0.009	

Trapezoidal Analysis

Original Surface Elev	229.738	**1 thru 6:**	X-Section Spacing, ft =	5	Original Surface Elev	88.786		**7 thru 9:**	X-Section Spacing, ft =	5	
Eroded Surface Elev	228.817		Test Section Length, ft =	40	Eroded Surface Elev	89.719			Test Section Length, ft =	40	
Soil Gain	2.332	0.175	gauge spacing, ft =	0.5	Soil Gain	0.000	0.000		gauge spacing, ft =	0.5	
CSLI	-1.411	-0.106	hannel width measured, ft =	4	CSLI	-0.932	-0.070		channel width measured, ft =	4	

TYPICAL TEST PICTURES

0.5 cfs Flow (Enhanced Installation)




Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding Starting




Increased Ponding and Overtopping. No Apparent Underflow




End-of-test and Post-test With Upstream Sediment Deposition and Modest Downstream Scour

ASTM D7208

Date: 7/5/12 | Start Time: 2:07 PM | End Time: 2:37 PM

Soil: Sandy Clay | Target Flow (cfs): 0.50 | Slope: 5%

60 ft long flume | 40 ft test section | 2 ft wide flume

SRD: Straw Bales | **Installation:** Wooden Stakes / NRCS Install

TEST DATA

1 2 3 FLOW

Weir width (ft) = 2

0 ft C D E F G H 5 ft 10 ft 15 ft 20 ft 25 ft 30 ft 35 ft 40 ft

Outlet Weir									Weir						Channel Targets	
Water Depth, in									2.25						1.50	
Water Velocity, ft/s									0.00						4.00	
Flow Rate, cfs	0.00								0.00	0.00					0.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
Surface Elev, ft	1.864	2.093	2.346	2.392	2.418	2.379	2.352	2.152	1.883	9.007			3.83		2.3	
To eroded Surface Elev, ft	1.864	2.106	2.395	2.428	2.425	2.405	2.372	2.188	1.896	9.109		Vavg (fps) =	3.83	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.024			
Clopper Soil Loss, ft	0.000	-0.013	-0.049	-0.036	-0.007	-0.026	-0.020	-0.036	-0.013	-0.102	-0.305	Flow (cfs) =	0.50	0.45	0.14	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft	-0.02											
Cross-section 2	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.110	2.372	2.579	2.605	2.621	2.605	2.598	2.313	2.080	9.894			3.14		2.4	
To eroded Surface Elev, ft	2.192	2.379	2.598	2.644	2.621	2.621	2.615	2.320	2.083	9.967		Vavg (fps) =	3.14	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.037			
Clopper Soil Loss, ft	-0.082	-0.007	-0.020	-0.039	0.000	-0.016	-0.016	-0.007	-0.003	-0.072	-0.217	Flow (cfs) =	0.50	0.65	0.21	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft	-0.02											
Cross-section 3	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.834	2.083	2.310	2.323	2.343	2.336	2.303	2.057	1.804	8.791			2.04		1.8	
To eroded Surface Elev, ft	1.867	2.106	2.320	2.329	2.343	2.349	2.352	2.106	1.827	8.881		Vavg (fps) =	2.04	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.108			
Clopper Soil Loss, ft	-0.033	-0.023	-0.010	-0.007	0.000	-0.013	-0.049	-0.049	-0.023	-0.090	-0.271	Flow (cfs) =	0.50	1.68	0.54	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft	-0.02											
Cross-section 4	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.991	2.218	2.451	2.493	2.500	2.493	2.484	2.228	1.982	9.429			1.81		1.8	
To eroded Surface Elev, ft	2.054	2.280	2.359	2.434	2.461	2.451	2.392	2.333	2.047	9.419		Vavg (fps) =	1.81	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.092	0.059	0.039	0.043	0.092	0.000	0.000	0.142	0.427	navg =	0.143			
Clopper Soil Loss, ft	-0.062	-0.062	0.000	0.000	0.000	0.000	0.000	-0.105	-0.066	-0.133	-0.399	Flow (cfs) =	0.50	2.15	0.69	
Avg Bottom Gain, ft	0.04			Avg Clopper Soil Loss, ft	-0.03											
Cross-section 5	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.844	1.991	2.208	2.238	2.274	2.257	2.241	2.011	1.772	8.508			0.51		1.1	
To eroded Surface Elev, ft	1.844	1.962	2.156	2.165	2.185	2.156	2.159	1.962	1.821	8.274		Vavg (fps) =	0.51	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.030	0.052	0.072	0.089	0.102	0.082	0.049	0.000	0.243	0.728	navg =	0.667			
Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.049	-0.008	-0.025	Flow (cfs) =	0.50	3.23	1.04	
Avg Bottom Gain, ft	0.05			Avg Clopper Soil Loss, ft	-0.01											
Cross-section 6	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.831	2.070	2.297	2.356	2.382	2.359	2.326	2.110	1.877	8.882			0.1		1.1	
To eroded Surface Elev, ft	1.837	2.080	2.192	2.208	2.224	2.218	2.169	2.008	1.877	8.490		Vavg (fps) =	0.10	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.105	0.148	0.157	0.141	0.157	0.102	0.000	0.400	1.201	navg =	3.616			
Clopper Soil Loss, ft	-0.007	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.008	-0.023	Flow (cfs) =	0.23	3.54	1.14	
Avg Bottom Gain, ft	0.09			Avg Clopper Soil Loss, ft	0.00											
Cross-section 7	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.644	1.913	2.142	2.195	2.208	2.195	2.172	1.975	1.739	8.256			3.36		2.0	
To eroded Surface Elev, ft	1.644	1.913	2.165	2.221	2.238	2.231	2.234	1.975	1.739	8.336		Vavg (fps) =	3.36	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.038			
Clopper Soil Loss, ft	0.000	0.000	-0.023	-0.026	-0.030	-0.036	-0.062	0.000	0.000	-0.080	-0.240	Flow (cfs) =	1.59	0.74	0.24	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft	-0.02											
Cross-section 8	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.909	2.201	2.428	2.457	2.464	2.448	2.425	2.175	1.923	9.265			3.71		2.4	
To eroded Surface Elev, ft	1.909	2.201	2.444	2.477	2.536	2.470	2.451	2.175	1.923	9.332		Vavg (fps) =	3.71	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.026			
Clopper Soil Loss, ft	0.000	0.000	-0.016	-0.020	-0.072	-0.023	-0.026	0.000	0.000	-0.067	-0.200	Flow (cfs) =	1.17	0.49	0.16	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft	-0.02											
Cross-section 9	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.844	2.057	2.297	2.382	2.375	2.365	2.329	2.073	1.844	8.867			4.04		2.3	
To eroded Surface Elev, ft	1.844	2.057	2.326	2.421	2.415	2.405	2.365	2.073	1.844	8.955		Vavg (fps) =	4.04	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020			
Clopper Soil Loss, ft	0.000	0.000	-0.030	-0.039	-0.039	-0.039	-0.036	0.000	0.000	-0.087	-0.262	Flow (cfs) =	0.95	0.37	0.12	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft	-0.02											
Avg Soil Gain, ft	0.000	0.004	0.021	0.019	0.018	0.021	0.025	0.007	0.000	**Volume**		Avg Bottom Gain per Xsection, ft =	0.000			
Avg Clopper Soil Loss, ft	-0.025	-0.015	-0.018	-0.020	-0.017	-0.017	-0.021	-0.028	-0.022	**[ft³]**	**[in]**	Avg Clopper Soil Loss per Xsection, ft =	-0.020			

Trapezoidal Analysis

Original Surface Elev	227.835	**1 thru 6:**	X-Section Spacing, ft =	5	Original Surface Elev	89.134		**7 thru 9:**	X-Section Spacing, ft =	5	
Eroded Surface Elev	226.701		Test Section Length, ft =	40	Eroded Surface Elev	89.885			Test Section Length, ft =	40	
Soil Gain	2.925	0.219	gauge spacing, ft =	0.5	Soil Gain	0.000	0.000		gauge spacing, ft =	0.5	
CSLI	-1.791	-0.134	hannel width measured, ft =	4	CSLI	-0.752	-0.056		channel width measured, ft =	4	

TYPICAL TEST PICTURES

1.0 cfs Flow



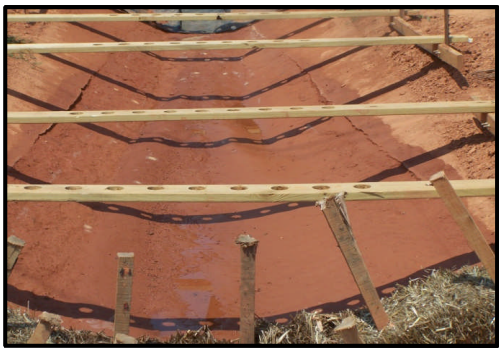

Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding




Increased Ponding & Overtopping

End-of-test and Post-test

ASTM D7208

Date: 7/16/12 | Start Time: 4:49 PM | End Time: 5:19 PM

Soil: Sandy Clay | Target Flow (cfs): 2.00 | Slope: 5%

60 ft long flume | 40 ft test section | 2 ft wide flume

SRD: Straw Bales | **Installation:** Wooden Stakes / NRCS Install

TEST DATA

1 2 3 FLOW

Weir width (ft) = 2

0 ft C D E F G H 5 ft 10 ft 15 ft 20 ft 25 ft 30 ft 35 ft 40 ft

Outlet Weir								Weir						Channel Targets	
Water Depth, in								1.50						0.00	
Water Velocity, ft/s								0.00						0.00	
Flow Rate, cfs	0.00							0.00	0.00					0.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
I Surface Elev, ft	1.037	1.460	1.932	2.379	2.405	2.343	1.873	1.375	0.889	7.428			5.1		2.3
To eroded Surface Elev, ft	1.037	1.460	1.962	2.451	2.477	2.415	1.916	1.378	0.889	7.575		Vavg (fps) =	5.10	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020		
Clopper Soil Loss, ft	0.000	0.000	-0.030	-0.072	-0.072	-0.072	-0.043	-0.003	0.000	-0.147	-0.440	Flow (cfs) =	2.00	0.52	0.17
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.03						
Cross-section 2	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.076	1.522	2.116	2.582	2.654	2.615	2.149	1.686	1.155	8.282			3.63		2.1
To eroded Surface Elev, ft	1.076	1.522	2.159	2.654	2.717	2.717	2.175	1.686	1.155	8.442		Vavg (fps) =	3.63	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.063		
Clopper Soil Loss, ft	0.000	0.000	-0.043	-0.072	-0.062	-0.102	-0.026	0.000	0.000	-0.160	-0.479	Flow (cfs) =	2.00	1.78	0.57
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.03						
Cross-section 3	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	0.889	1.322	1.864	2.316	2.369	2.336	1.880	1.401	0.928	7.257			1.46		1.6
To eroded Surface Elev, ft	0.889	1.342	1.883	2.297	2.392	2.395	1.926	1.401	0.928	7.326		Vavg (fps) =	1.46	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.013	0.039	navg =	0.190		
Clopper Soil Loss, ft	0.000	-0.020	-0.020	0.000	-0.023	-0.059	-0.046	0.000	0.000	-0.082	-0.246	Flow (cfs) =	2.22	2.37	0.76
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.02						
Cross-section 4	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.033	1.506	2.018	2.480	2.536	2.464	1.975	1.486	1.001	7.806			0.34		1.6
To eroded Surface Elev, ft	1.033	1.480	2.001	2.375	2.543	2.575	2.110	1.486	1.001	7.835		Vavg (fps) =	0.34	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.026	0.016	0.105	0.000	0.000	0.000	0.000	0.000	0.093	0.279	navg =	0.924		
Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	-0.007	-0.112	-0.135	0.000	0.000	-0.121	-0.364	Flow (cfs) =	0.62	2.86	0.92
Avg Bottom Gain, ft	0.02					Avg Clopper Soil Loss, ft			-0.03						
Cross-section 5	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	0.689	1.132	1.614	2.106	2.119	2.080	1.594	1.125	0.640	6.293			0.33		1.0
To eroded Surface Elev, ft	0.689	1.194	1.585	1.896	2.001	1.880	1.732	1.276	0.640	6.159		Vavg (fps) =	0.33	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.030	0.210	0.118	0.200	0.000	0.000	0.000	0.323	0.968	navg =	1.014		
Clopper Soil Loss, ft	0.000	-0.062	0.000	0.000	0.000	0.000	-0.138	-0.151	0.000	-0.188	-0.564	Flow (cfs) =	0.67	3.15	1.01
Avg Bottom Gain, ft	0.06					Avg Clopper Soil Loss, ft			-0.04						
Cross-section 6	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	0.965	1.378	1.962	2.385	2.438	2.352	1.906	1.450	0.988	7.471			0.25		1.1
To eroded Surface Elev, ft	0.981	1.414	1.877	2.093	2.287	2.300	1.995	1.457	0.994	7.224		Vavg (fps) =	0.25	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.085	0.292	0.151	0.052	0.000	0.000	0.000	0.308	0.925	navg =	1.507		
Clopper Soil Loss, ft	-0.016	-0.036	0.000	0.000	0.000	0.000	-0.089	-0.007	-0.007	-0.062	-0.185	Flow (cfs) =	0.60	3.77	1.21
Avg Bottom Gain, ft	0.06					Avg Clopper Soil Loss, ft			-0.02						
Cross-section 7	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.755	2.008	2.152	2.224	2.254	2.228	2.175	1.929	1.654	8.355			3.66		1.9
To eroded Surface Elev, ft	1.759	2.008	2.247	2.274	2.320	2.313	2.201	1.946	1.654	8.518		Vavg (fps) =	3.66	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.049		
Clopper Soil Loss, ft	-0.003	0.000	-0.095	-0.049	-0.066	-0.085	-0.026	-0.016	0.000	-0.163	-0.490	Flow (cfs) =	2.88	1.23	0.39
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.04						
Cross-section 8	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.867	2.044	2.280	2.320	2.316	2.283	2.224	1.952	1.716	8.603			4.54		2.2
To eroded Surface Elev, ft	1.867	2.093	2.346	2.369	2.365	2.385	2.280	1.962	1.716	8.800		Vavg (fps) =	4.54	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.023		
Clopper Soil Loss, ft	0.000	-0.049	-0.066	-0.049	-0.049	-0.102	-0.056	-0.010	0.000	-0.197	-0.591	Flow (cfs) =	1.55	0.53	0.17
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.04						
Cross-section 9	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	1.890	2.136	2.365	2.392	2.379	2.323	2.290	2.057	1.749	8.889			6.26		2.3
To eroded Surface Elev, ft	1.890	2.136	2.418	2.448	2.448	2.451	2.349	2.057	1.749	9.072		Vavg (fps) =	6.26	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.017		
Clopper Soil Loss, ft	0.000	0.000	-0.052	-0.056	-0.069	-0.128	-0.059	0.000	0.000	-0.183	-0.548	Flow (cfs) =	2.30	0.57	0.18
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.04						
Avg Soil Gain, ft	0.000	0.004	0.007	0.048	0.017	0.029	0.000	0.000	0.000	**Volume**		Avg BottomGain per Xsection, ft =			**0.000**
Avg Clopper Soil Loss, ft	0.000	-0.019	-0.030	-0.036	-0.040	-0.082	-0.072	-0.023	0.000	**[ft³]**	**[in]**	Avg Clopper Soil Loss per Xsection, ft =			**-0.032**

Trapezoidal Analysis

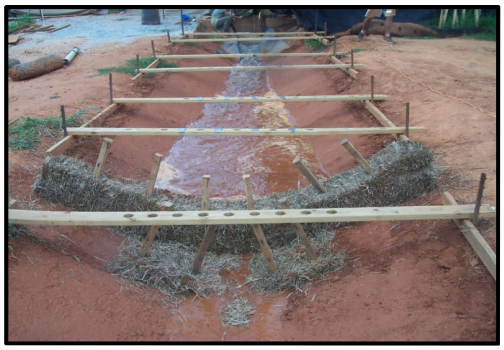
Original Surface Elev	185.441	**1 thru 6:**	X-Section Spacing, ft =	5	Original Surface Elev	86.128		**7 thru 9:**	X-Section Spacing, ft =	5	
Eroded Surface Elev	185.804		Test Section Length, ft =	40	Eroded Surface Elev	87.977			Test Section Length, ft =	40	
Soil Gain	2.914	0.219	gauge spacing, ft =	0.5	Soil Gain	0.000	0.000		gauge spacing, ft =	0.5	
CSLI	-3.277	-0.246	channel width measured, ft =	4	CSLI	-1.850	-0.139		channel width measured, ft =	4	

TYPICAL TEST PICTURES

2.0 cfs Flow




Check Structure Installation over Bare Soil

Initial Flow & Upstream Ponding




Increased Ponding and Overtopping




End-of-test and Post-test condition.

ASTM D7208

Date: 5/15/12 | Start Time: 11:38 AM | End Time: 12:08 PM

Soil: Sandy Clay | Target Flow (cfs): 0.50 | Slope: 5%

60 ft long flume | 40 ft test section | 2 ft wide flume

SRD: Filtrexx Sock | **Installation:** Wooden Stakes

TEST DATA

1 2 3 FLOW

eir width (ft) = 2

0 ft C D E F G H

5 ft

10 ft

15 ft

20 ft

25 ft

30 ft

35 ft

40 ft

Outlet Weir								Weir						Channel Targets	
Water Depth, in								0.00						0.00	
Water Velocity, ft/s								0.00						0.00	
Flow Rate, cfs	0.00							0.00	0.00					0.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	6.635	6.802	7.010	7.031	7.010	6.969	6.938	6.917	6.792	27.703			2.8		6.9
To eroded Surface Elev, ft	6.635	6.802	7.010	7.052	7.021	7.000	6.938	6.917	6.792	27.741		Vavg (fps) =	2.80	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.026		
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.021	-0.010	-0.031	0.000	0.000	0.000	-0.038	-0.115	Flow (cfs) =	0.50	0.32	0.10
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01							
Cross-section 2	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	6.719	6.958	7.188	7.344	7.344	7.344	7.271	7.104	6.865	28.698			3		7.3
To eroded Surface Elev, ft	6.719	6.958	7.188	7.354	7.354	7.354	7.271	7.104	6.865	28.715		Vavg (fps) =	3.00	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.010	-0.010	-0.010	0.000	0.000	0.000	-0.017	-0.052	Flow (cfs) =	0.50	0.26	0.08
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				0.00							
Cross-section 3	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	6.979	7.250	7.490	7.583	7.583	7.583	7.563	7.427	7.198	29.804			2.9		7.5
To eroded Surface Elev, ft	6.979	7.250	7.490	7.615	7.604	7.604	7.563	7.427	7.198	29.845		Vavg (fps) =	2.90	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.025		
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.031	-0.021	-0.021	0.000	0.000	0.000	-0.042	-0.125	Flow (cfs) =	0.50	0.32	0.10
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01							
Cross-section 4	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	7.208	7.438	7.677	7.771	7.823	7.823	7.781	7.615	7.375	30.622			0.23		7.5
To eroded Surface Elev, ft	7.208	7.438	7.677	7.781	7.833	7.833	7.781	7.615	7.375	30.639		Vavg (fps) =	0.23	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.635		
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.010	-0.010	-0.010	0.000	0.000	0.000	-0.017	-0.052	Flow (cfs) =	0.50	0.91	0.29
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				0.00							
Cross-section 5	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	7.396	7.594	7.844	7.969	8.021	8.021	7.917	7.875	7.646	31.406			0.19		7.6
To eroded Surface Elev, ft	7.396	7.594	7.854	7.979	8.000	8.010	7.885	7.865	7.646	31.385		Vavg (fps) =	0.19	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.021	0.010	0.031	0.010	0.000	0.031	0.094	navg =	0.959		
Clopper Soil Loss, ft	0.000	0.000	-0.010	-0.010	0.000	0.000	0.000	0.000	0.000	-0.010	-0.031	Flow (cfs) =	0.50	1.27	0.41
Avg Bottom Gain, ft	0.01			Avg Clopper Soil Loss, ft				0.00							
Cross-section 6	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	7.594	7.844	8.104	8.219	8.250	8.219	8.198	8.010	7.771	32.273			0.6		7.7
To eroded Surface Elev, ft	7.594	7.844	8.094	8.198	8.229	8.198	8.188	8.010	7.771	32.231		Vavg (fps) =	0.60	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.010	0.021	0.021	0.021	0.010	0.000	0.000	0.042	0.125	navg =	0.349		
Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Flow (cfs) =	0.60	1.56	0.50
Avg Bottom Gain, ft	0.01			Avg Clopper Soil Loss, ft				0.00							
Cross-section 7	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	7.948	8.135	8.365	8.479	8.490	8.490	8.458	8.302	8.063	33.377			1.95		8.4
To eroded Surface Elev, ft	7.948	8.135	8.365	8.510	8.521	8.510	8.469	8.302	8.063	33.425		Vavg (fps) =	1.95	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.040		
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.031	-0.031	-0.021	-0.010	0.000	0.000	-0.049	-0.146	Flow (cfs) =	0.45	0.36	0.11
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01							
Cross-section 8	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	8.156	8.375	8.615	8.688	8.698	8.688	8.635	8.469	8.177	34.184			2.5		8.6
To eroded Surface Elev, ft	8.156	8.375	8.604	8.729	8.729	8.719	8.656	8.469	8.177	34.247		Vavg (fps) =	2.50	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.010	navg =	0.031		
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.042	-0.031	-0.031	-0.021	0.000	0.000	-0.066	-0.198	Flow (cfs) =	0.57	0.36	0.11
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01							
Cross-section 9	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	8.365	8.594	8.823	8.969	9.021	9.021	8.979	8.885	8.635	35.420			3		9.0
To eroded Surface Elev, ft	8.365	8.594	8.823	9.000	9.083	9.083	9.000	8.885	8.635	35.510		Vavg (fps) =	3.00	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.031	-0.063	-0.063	-0.021	0.000	0.000	-0.090	-0.271	Flow (cfs) =	0.50	0.26	0.08
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02							

Soil Gain, in	0.000	0.000	0.001	0.000	0.001	0.001	0.002	0.001	0.000	**Volume**		Avg Bottom Gain per Xsection, ft =	0.000
Clopper Soil Loss, in	0.000	0.000	-0.001	-0.009	-0.008	-0.009	-0.002	0.000	0.000	**[ft³]**	**[in]**	Avg Clopper Soil Loss per Xsection, ft =	-0.007

Trapezoidal Analysis

Original Surface Elev	752.587	**1 thru 6:**	X-Section Spacing, ft =	5		Original Surface Elev	342.912		**7 thru 9:**	X-Section Spacing, ft =	5		
Eroded Surface Elev	752.856		Test Section Length, ft =	40		Eroded Surface Elev	343.572			Test Section Length, ft =	40		
Soil Gain	0.260	0.020	gauge spacing, ft =	0.5		Soil Gain	0.017	0.001		gauge spacing, ft =	0.5		
CSLI	-0.530	-0.040	hannel width measured, ft =	4		CSLI	-0.677	-0.051		channel width measured, ft =	4		

TYPICAL TEST PICTURES

0.5 cfs Flow




Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding




Increased Ponding and Overtopping




End-of-test and Post-test condition.

ASTM D7208

Date: 6/13/12 | Start Time: 3:58 PM | End Time: 4:28 PM

Soil: Sandy Clay | Target Flow (cfs): 1.00 | Slope: 5%

60 ft long flume | 40 ft test section | 2 ft wide flume | **SRD:** Filtrexx Sock | **Installation:** Wooden Stakes

Weir width (ft) = 2

1 2 3 FLOW

0 ft C D E F G H

5 ft Straw Bales

10 ft

15 ft

20 ft

25 ft

30 ft

35 ft

40 ft

TEST DATA

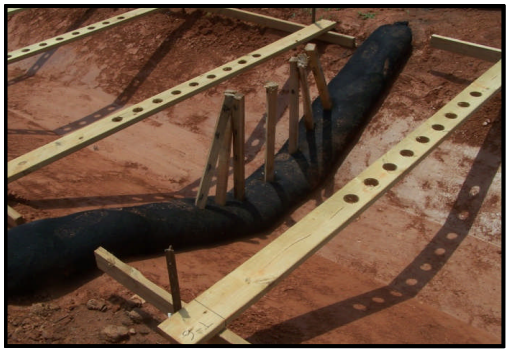
Outlet Weir									Weir						Channel Targets	
Water Depth, in									2.13						0.00	
Water Velocity, ft/s									0.00						0.00	
Flow Rate, cfs	0.00								0.00	0.00					0.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.857	2.123	2.359	2.415	2.421	2.434	2.434	2.274	2.008	9.213			3.2		2.3	
To eroded Surface Elev, ft	1.857	2.123	2.359	2.428	2.438	2.470	2.434	2.274	2.008	9.251		Vavg (fps) =	3.20	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.026			
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.013	-0.016	-0.036	0.000	0.000	0.000	-0.038	-0.115	Flow (cfs) =	1.00	0.39	0.12	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 2	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.087	2.313	2.582	2.638	2.651	2.657	2.641	2.477	2.224	10.067			3.4		2.5	
To eroded Surface Elev, ft	2.087	2.313	2.595	2.648	2.667	2.684	2.657	2.477	2.224	10.106		Vavg (fps) =	3.40	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.024			
Clopper Soil Loss, ft	0.000	0.000	-0.013	-0.010	-0.016	-0.026	-0.016	0.000	0.000	-0.039	-0.118	Flow (cfs) =	1.00	0.39	0.12	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 3	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.791	2.060	2.326	2.362	2.382	2.385	2.382	2.215	1.985	9.008			3		2.3	
To eroded Surface Elev, ft	1.791	2.060	2.333	2.392	2.392	2.395	2.431	2.228	1.985	9.064		Vavg (fps) =	3.00	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.028			
Clopper Soil Loss, ft	0.000	0.000	-0.007	-0.030	-0.010	-0.010	-0.049	-0.013	0.000	-0.057	-0.171	Flow (cfs) =	1.00	0.40	0.13	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 4	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.959	2.215	2.444	2.493	2.503	2.493	2.497	2.323	2.139	9.514			0.3		2.2	
To eroded Surface Elev, ft	1.959	2.215	2.451	2.493	2.503	2.497	2.497	2.323	2.139	9.518		Vavg (fps) =	0.30	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.502			
Clopper Soil Loss, ft	0.000	0.000	-0.007	0.000	0.000	-0.003	0.000	0.000	0.000	-0.004	-0.013	Flow (cfs) =	1.00	0.95	0.31	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				0.00								
Cross-section 5	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.634	1.903	2.159	2.254	2.297	2.306	2.339	2.172	1.939	8.617			0.21		1.9	
To eroded Surface Elev, ft	1.634	1.906	2.142	2.185	2.313	2.293	2.339	2.172	1.939	8.565		Vavg (fps) =	0.21	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.016	0.069	0.000	0.013	0.000	0.000	0.000	0.060	0.180	navg =	0.897			
Clopper Soil Loss, ft	0.000	-0.003	0.000	0.000	-0.016	0.000	0.000	0.000	0.000	-0.008	-0.023	Flow (cfs) =	1.00	1.33	0.43	
Avg Bottom Gain, ft	0.01			Avg Clopper Soil Loss, ft				0.00								
Cross-section 6	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.827	2.073	2.320	2.336	2.346	2.359	2.316	2.195	1.978	8.937			0.61		1.8	
To eroded Surface Elev, ft	1.827	2.096	2.287	2.260	2.283	2.313	2.274	2.192	1.978	8.823		Vavg (fps) =	0.61	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.033	0.075	0.062	0.046	0.043	0.003	0.000	0.129	0.387	navg =	0.333			
Clopper Soil Loss, ft	0.000	-0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.015	-0.046	Flow (cfs) =	0.58	1.49	0.48	
Avg Bottom Gain, ft	0.03			Avg Clopper Soil Loss, ft				0.00								
Cross-section 7	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.637	1.886	2.126	2.169	2.169	2.169	2.103	2.067	1.824	8.237			2.59		2.1	
To eroded Surface Elev, ft	1.637	1.886	2.126	2.195	2.201	2.205	2.149	2.067	1.824	8.304		Vavg (fps) =	2.59	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.036			
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.026	-0.033	-0.036	-0.046	0.000	0.000	-0.068	-0.203	Flow (cfs) =	0.78	0.47	0.15	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 8	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.867	2.116	2.329	2.372	2.382	2.385	2.375	2.175	1.936	9.028			3		2.3	
To eroded Surface Elev, ft	1.867	2.116	2.372	2.402	2.415	2.405	2.425	2.175	1.936	9.103		Vavg (fps) =	3.00	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.029			
Clopper Soil Loss, ft	0.000	0.000	-0.043	-0.030	-0.033	-0.020	-0.049	0.000	0.000	-0.074	-0.223	Flow (cfs) =	0.81	0.42	0.13	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 9	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.742	1.978	2.195	2.306	2.346	2.326	2.283	2.096	1.854	8.679			3.42		2.3	
To eroded Surface Elev, ft	1.742	1.978	2.195	2.372	2.392	2.408	2.346	2.096	1.854	8.813		Vavg (fps) =	3.42	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.025			
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.066	-0.046	-0.082	-0.062	0.000	0.000	-0.135	-0.404	Flow (cfs) =	0.88	0.40	0.13	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.03								
Soil Gain, in	0.000	0.000	0.001	0.004	0.000	0.001	0.000	0.000	0.000	**Volume**		Avg Bottom Gain per Xsection, ft =		0.000		
Clopper Soil Loss, in	0.000	0.000	-0.004	-0.008	-0.008	-0.010	-0.010	-0.001	0.000	**[ft³]**	**[in]**	Avg Clopper Soil Loss per Xsection, ft =		-0.007		

Trapezoidal Analysis

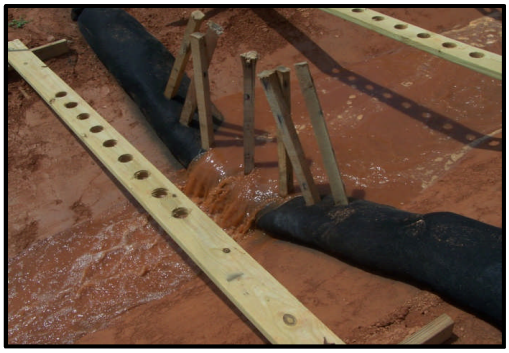
Original Surface Elev	231.400	**1 thru 6:**	X-Section Spacing, ft =	5	Original Surface Elev	87.430		**7 thru 9:**	X-Section Spacing, ft =	5						
Eroded Surface Elev	231.452		Test Section Length, ft =	40	Eroded Surface Elev	88.308			Test Section Length, ft =	40						
Soil Gain	0.623	0.047	gauge spacing, ft =	0.5	Soil Gain	0.000	0.000		gauge spacing, ft =	0.5						
CSLI	-0.675	-0.051	hannel width measured, ft =	4	CSLI	-0.878	-0.066		channel width measured, ft =	4						

TYPICAL TEST PICTURES

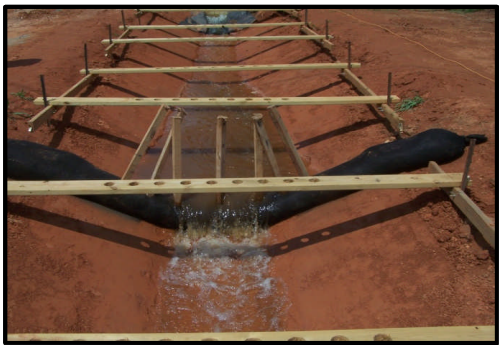
1.0 cfs Flow




Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding with Overtopping

Increased Ponding and Overtopping. No Apparent Underflow




End-of-test and Post-test With Upstream Sediment Deposition

ASTM D7208	Date: 5/22/12	Start Time: 3:21 AM	End Time: 3:51 PM
	Soil: Sandy Clay	Target Flow (cfs): 2.00	Slope: 5%
60 ft long flume	40 ft test section	**RECP:** Filtrexx Sock	**Anchorage:** Wooden Stakes
	2 ft wide flume		

TEST DATA

1 2 3 — FLOW — Weir width (ft) = 2 — 0 ft C D E F G H — 5 ft — 10 ft — 15 ft — 20 ft — 25 ft — 30 ft — 35 ft — 40 ft

Outlet Weir								Weir						Channel Targets	
Water Depth, in								0.00						0.00	
Water Velocity, ft/s								0.00						0.00	
Flow Rate, cfs	0.00							0.00	0.00					0.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	4.906	5.198	5.344	5.417	5.458	5.417	5.354	5.208	5.063	21.207			4.6		5.3
To eroded Surface Elev, ft	4.906	5.198	5.344	5.458	5.500	5.438	5.354	5.208	5.063	21.262		Vavg (fps) =	4.60	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.023		
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.042	-0.042	-0.021	0.000	0.000	0.000	-0.056	-0.167	Flow (cfs) =	2.00	0.55	0.18
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01							
Cross-section 2	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	4.990	5.292	5.500	5.625	5.667	5.625	5.583	5.458	5.188	21.946			4.8		5.6
To eroded Surface Elev, ft	4.990	5.292	5.500	5.625	5.719	5.698	5.667	5.458	5.188	22.040		Vavg (fps) =	4.80	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		
Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	-0.052	-0.073	-0.083	0.000	0.000	-0.094	-0.281	Flow (cfs) =	2.00	0.52	0.17
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02							
Cross-section 3	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	5.302	5.573	5.813	5.917	5.938	5.938	5.896	5.740	5.500	23.127			4.5		5.8
To eroded Surface Elev, ft	5.302	5.573	5.833	5.917	5.969	5.958	5.927	5.740	5.500	23.168		Vavg (fps) =	4.50	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.023		
Clopper Soil Loss, ft	0.000	0.000	-0.021	0.000	-0.031	-0.021	-0.031	0.000	0.000	-0.042	-0.125	Flow (cfs) =	1.59	0.55	0.18
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01							
Cross-section 4	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	5.458	5.708	5.990	6.063	6.104	6.125	6.083	5.906	5.688	23.785			0.39		5.8
To eroded Surface Elev, ft	5.458	5.750	5.979	6.104	6.167	6.156	6.146	5.906	5.688	23.899		Vavg (fps) =	0.39	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.010	navg =	0.451		
Clopper Soil Loss, ft	0.000	-0.042	0.000	-0.042	-0.063	-0.031	-0.063	0.000	0.000	-0.118	-0.354	Flow (cfs) =	0.30	1.20	0.39
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.03							
Cross-section 5	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	5.615	5.896	6.146	6.281	6.313	6.323	6.323	6.229	6.010	24.684			0.23		5.8
To eroded Surface Elev, ft	5.708	6.125	6.177	6.115	6.219	6.292	6.313	6.208	6.135	24.703		Vavg (fps) =	0.23	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.167	0.094	0.031	0.010	0.021	0.000	0.181	0.542	navg =	0.833		
Clopper Soil Loss, ft	-0.094	-0.229	-0.031	0.000	0.000	0.000	0.000	0.000	-0.125	-0.200	-0.599	Flow (cfs) =	0.20	1.36	0.44
Avg Bottom Gain, ft	0.04			Avg Clopper Soil Loss, ft				-0.05							
Cross-section 6	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	5.823	6.104	6.333	6.479	6.563	6.521	6.490	6.365	6.083	25.425			0.65		5.9
To eroded Surface Elev, ft	6.063	6.240	6.375	6.146	6.146	6.302	6.521	6.406	6.292	25.135		Vavg (fps) =	0.65	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.333	0.417	0.219	0.000	0.000	0.000	0.507	1.521	navg =	0.214		
Clopper Soil Loss, ft	-0.240	-0.135	-0.042	0.000	0.000	0.000	-0.031	-0.042	-0.208	-0.217	-0.651	Flow (cfs) =	0.35	0.84	0.27
Avg Bottom Gain, ft	0.11			Avg Clopper Soil Loss, ft				-0.08							
Cross-section 7	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	6.146	6.396	6.656	6.771	6.802	6.813	6.792	6.646	6.396	26.590			3.3		6.6
To eroded Surface Elev, ft	6.156	6.406	6.656	6.802	6.833	6.854	6.823	6.688	6.396	26.696		Vavg (fps) =	3.30	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.041		
Clopper Soil Loss, ft	-0.010	-0.010	0.000	-0.031	-0.031	-0.042	-0.031	-0.042	0.000	-0.106	-0.318	Flow (cfs) =	1.72	0.81	0.26
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02							
Cross-section 8	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	6.438	6.698	6.948	7.021	7.021	7.010	6.958	6.771	6.427	27.453			4.4		6.9
To eroded Surface Elev, ft	6.438	6.698	6.958	7.042	7.063	7.063	6.969	6.771	6.427	27.523		Vavg (fps) =	4.40	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.025		
Clopper Soil Loss, ft	0.000	0.000	-0.010	-0.021	-0.042	-0.052	-0.010	0.000	0.000	-0.069	-0.208	Flow (cfs) =	1.65	0.58	0.19
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02							
Cross-section 9	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
To original Surface Elev, ft	6.740	6.979	7.229	7.292	7.396	7.333	7.281	7.094	6.854	28.700			4.7		7.3
To eroded Surface Elev, ft	6.740	6.979	7.235	7.365	7.458	7.417	7.313	7.094	6.854	28.837		Vavg (fps) =	4.70	Bed Max Shear Stress (psf)	Water Depth (ft)
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.022		
Clopper Soil Loss, ft	0.000	0.000	-0.006	-0.073	-0.063	-0.083	-0.031	0.000	0.000	-0.138	-0.413	Flow (cfs) =	1.66	0.55	0.18
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.03							
Soil Gain, in	0.000	0.000	0.001	0.009	0.005	0.002	0.001	0.001	0.000	**Volume**		Avg Bottom Gain per Xsection, ft =	0.000		
Clopper Soil Loss, in	-0.005	-0.015	-0.004	-0.010	-0.016	-0.016	-0.012	0.000	-0.007	**[ft³]**	**[in]**	Avg Clopper Soil Loss per Xsection, ft =	-0.012		

Trapezoidal Analysis														
Original Surface Elev	584.288	**1 thru 6:**	X-Section Spacing, ft =	5	Original Surface Elev	275.490		**7 thru 9:**	X-Section Spacing, ft =	5				
Eroded Surface Elev	585.048		Test Section Length, ft =	40	Eroded Surface Elev	276.446			Test Section Length, ft =	40				
Soil Gain	2.188	0.164	gauge spacing, ft =	0.5	Soil Gain	0.000	0.000		gauge spacing, ft =	0.5				
CSLI	-2.947	-0.221	hannel width measured, ft =	4	CSLI	-0.956	-0.072		channel width measured, ft =	4				

TYPICAL TEST PICTURES

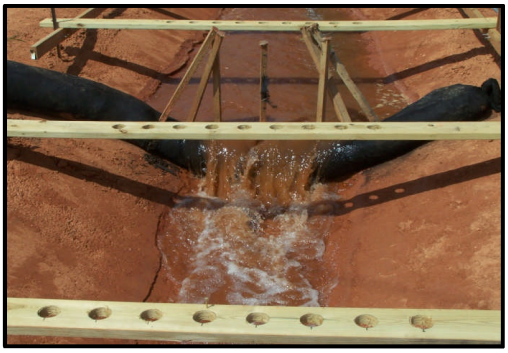
2.0 cfs Flow




Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding




Increased Ponding and Overtopping




End-of-test and Post-test condition.

ASTM D7208

Date: 6/8/12 | Start Time: 3:58 PM | End Time: 4:28 PM

Soil: Sandy Clay | Target Flow (cfs): 0.50 | Slope: 5%

60 ft long flume | 40 ft test section | 2 ft wide flume

SRD: Rock Check | **Installation:** over Geotextile

1 2 3 FLOW

Weir width (ft) = 2

0 ft C D E F G H 5 ft 10 ft 15 ft 20 ft 25 ft 30 ft 35 ft 40 ft

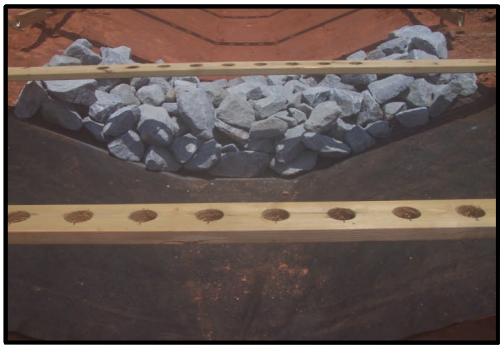
TEST DATA

Outlet Weir									Weir						Channel Targets	
Water Depth, in									2.25						1.00	
Water Velocity, ft/s									0.00						3 - 4	
Flow Rate, cfs	0.00								0.00	0.00					0.50	
Cross-section 1	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.873	2.139	2.349	2.431	2.444	2.461	2.438	2.260	2.021	9.254			2.8		2.3	
To eroded Surface Elev, ft	1.873	2.139	2.352	2.451	2.467	2.477	2.441	2.260	2.021	9.288		Vavg (fps) =	2.80	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.029			
Clopper Soil Loss, ft	0.000	0.000	-0.003	-0.020	-0.023	-0.016	-0.003	0.000	0.000	-0.034	-0.102	Flow (cfs) =	0.50	0.38	0.12	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 2	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.073	2.326	2.579	2.677	2.684	2.677	2.671	2.474	2.241	10.133			3		2.6	
To eroded Surface Elev, ft	2.073	2.326	2.579	2.687	2.700	2.717	2.687	2.474	2.241	10.177		Vavg (fps) =	3.00	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.022			
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.010	-0.016	-0.039	-0.016	0.000	0.000	-0.044	-0.131	Flow (cfs) =	0.50	0.28	0.09	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 3	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.824	2.087	2.349	2.444	2.461	2.470	2.457	2.277	2.044	9.253			2.69		2.4	
To eroded Surface Elev, ft	1.824	2.087	2.356	2.461	2.484	2.490	2.461	2.277	2.044	9.288		Vavg (fps) =	2.69	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.031			
Clopper Soil Loss, ft	0.000	0.000	-0.007	-0.016	-0.023	-0.020	-0.003	0.000	0.000	-0.035	-0.105	Flow (cfs) =	0.50	0.39	0.12	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 4	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.932	2.185	2.441	2.559	2.569	2.592	2.569	2.388	2.152	9.690			1.72		2.3	
To eroded Surface Elev, ft	1.932	2.185	2.441	2.572	2.579	2.635	2.572	2.388	2.152	9.732		Vavg (fps) =	1.72	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.080			
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.013	-0.010	-0.043	-0.003	0.000	0.000	-0.042	-0.125	Flow (cfs) =	0.50	0.83	0.27	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 5	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.637	1.919	2.142	2.280	2.303	2.326	2.280	2.159	1.939	8.628			1.65		1.9	
To eroded Surface Elev, ft	1.637	1.919	2.156	2.283	2.310	2.329	2.290	2.159	1.978	8.648		Vavg (fps) =	1.65	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.118			
Clopper Soil Loss, ft	0.000	0.000	-0.013	-0.003	-0.007	-0.003	-0.010	0.000	-0.039	-0.021	-0.062	Flow (cfs) =	0.50	1.40	0.45	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 6	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.857	2.087	2.339	2.421	2.434	2.425	2.434	2.218	1.995	9.145			0.5		1.8	
To eroded Surface Elev, ft	1.837	2.077	2.270	2.270	2.241	2.178	2.356	2.257	1.995	8.783		Vavg (fps) =	0.50	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.020	0.010	0.069	0.151	0.194	0.246	0.079	0.000	0.000	0.388	1.165	navg =	0.382			
Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.039	0.000	-0.026	-0.079	Flow (cfs) =	0.44	1.36	0.44	
Avg Bottom Gain, ft	0.09			Avg Clopper Soil Loss, ft				0.00								
Cross-section 7	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.617	1.873	2.100	2.211	2.238	2.238	2.215	2.037	1.827	8.331			2.2		2.1	
To eroded Surface Elev, ft	1.617	1.873	2.110	2.215	2.244	2.241	2.234	2.054	1.827	8.358		Vavg (fps) =	2.20	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.043			
Clopper Soil Loss, ft	0.000	0.000	-0.010	-0.003	-0.007	-0.003	-0.020	-0.016	0.000	-0.027	-0.082	Flow (cfs) =	0.66	0.47	0.15	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 8	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.847	2.110	2.346	2.425	2.444	2.434	2.408	2.192	1.939	9.137			2.68		2.4	
To eroded Surface Elev, ft	1.847	2.110	2.379	2.470	2.500	2.454	2.448	2.192	1.939	9.224		Vavg (fps) =	2.68	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.030			
Clopper Soil Loss, ft	0.000	0.000	-0.033	-0.046	-0.056	-0.020	-0.039	0.000	0.000	-0.086	-0.259	Flow (cfs) =	0.63	0.37	0.12	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 9	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.765	1.995	2.185	2.323	2.326	2.306	2.297	2.073	1.818	8.665			3.1		2.3	
To eroded Surface Elev, ft	1.765	1.995	2.208	2.362	2.372	2.343	2.313	2.073	1.818	8.743		Vavg (fps) =	3.10	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.022			
Clopper Soil Loss, ft	0.000	0.000	-0.023	-0.039	-0.046	-0.036	-0.016	0.000	0.000	-0.079	-0.236	Flow (cfs) =	0.57	0.29	0.09	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Soil Loss / Gain, in	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**Volume**		Avg Bottom Gain per Xsection, ft =			0.000	
Clopper Soil Loss, in	0.000	0.000	-0.004	-0.008	-0.010	-0.010	-0.005	0.000	-0.002	**[ft³]**	**[in]**	Avg Clopper Soil Loss per Xsection, ft =			-0.022	

Trapezoidal Analysis														
Original Surface Elev	234.510	**1 thru 6:**	X-Section Spacing, ft =	5	Original Surface Elev	88.175		**7 thru 9:**	X-Section Spacing, ft =	5				
Eroded Surface Elev	234.396		Test Section Length, ft =	40	Eroded Surface Elev	88.872			Test Section Length, ft =	40				
Soil Gain	0.971	0.073	gauge spacing, ft =	0.5	Soil Gain	0.000	0.000		gauge spacing, ft =	0.5				
CSLI	-0.856	-0.064	channel width measured, ft =	4	CSLI	-0.697	-0.052		channel width measured, ft =	4				

TYPICAL TEST PICTURES

0.5 cfs Flow

Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding




Increased Ponding and Seepage




End-of-test and Post-test condition.

ASTM D7208

Date: 6/19/12 | Start Time: 2:58 AM | End Time: 3:28 PM

Soil: Sandy Clay | Target Flow (cfs): 1.00 | Slope: 5%

60 ft long flume | 40 ft test section | 2 ft wide flume

RECP: Rock Check | **Anchorage:** over Geotextile

1 2 3 FLOW

Weir width (ft) = 2

0 ft C D E F G H

5 ft

10 ft

15 ft

20 ft

25 ft

30 ft

35 ft

40 ft

Straw Bales

TEST DATA

Outlet Weir									Weir						Channel Targets	
Water Depth, in									2.25						1.50	
Water Velocity, ft/s									0.00						4 - 5	
Flow Rate, cfs	0.00								0.00	0.00					1.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.752	1.972	2.211	2.323	2.333	2.326	2.320	2.175	1.939	8.767			3.71		2.2	
To eroded Surface Elev, ft	1.752	1.972	2.221	2.369	2.372	2.375	2.343	2.175	1.939	8.854		Vavg (fps) =	3.71	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.027			
Clopper Soil Loss, ft	0.000	0.000	-0.010	-0.046	-0.039	-0.049	-0.023	0.000	0.000	-0.087	-0.262	Flow (cfs) =	1.00	0.51	0.16	
Avg Bottom Gain, ft				0.00	Avg Clopper Soil Loss, ft			-0.02								
Cross-section 2	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.959	2.228	2.461	2.487	2.500	2.493	2.441	2.188	1.985	9.389			3.98		2.4	
To eroded Surface Elev, ft	1.959	2.228	2.493	2.549	2.507	2.539	2.510	2.188	1.985	9.497		Vavg (fps) =	3.98	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.022			
Clopper Soil Loss, ft	0.000	0.000	-0.033	-0.062	-0.007	-0.046	-0.069	0.000	0.000	-0.108	-0.325	Flow (cfs) =	1.00	0.41	0.13	
Avg Bottom Gain, ft				0.00	Avg Clopper Soil Loss, ft			-0.02								
Cross-section 3	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.824	2.051	2.274	2.329	2.346	2.320	2.283	2.031	1.811	8.727			3.87		2.3	
To eroded Surface Elev, ft	1.824	2.051	2.310	2.369	2.398	2.372	2.329	2.031	1.811	8.833		Vavg (fps) =	3.87	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.024			
Clopper Soil Loss, ft	0.000	0.000	-0.036	-0.039	-0.052	-0.052	-0.046	0.000	0.000	-0.106	-0.318	Flow (cfs) =	1.00	0.45	0.14	
Avg Bottom Gain, ft				0.00	Avg Clopper Soil Loss, ft			-0.03								
Cross-section 4	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.067	2.320	2.510	2.549	2.566	2.552	2.484	2.247	2.014	9.646			2.35		2.1	
To eroded Surface Elev, ft	2.067	2.362	2.595	2.562	2.602	2.474	2.408	2.244	2.008	9.642		Vavg (fps) =	2.35	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.079	0.075	0.003	0.007	0.081	0.243	navg =	0.087			
Clopper Soil Loss, ft	0.000	-0.043	-0.085	-0.013	-0.036	0.000	0.000	0.000	0.000	-0.078	-0.233	Flow (cfs) =	1.00	1.49	0.48	
Avg Bottom Gain, ft				0.02	Avg Clopper Soil Loss, ft			-0.02								
Cross-section 5	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.883	2.136	2.270	2.287	2.326	2.297	2.254	2.060	1.808	8.752			1.28		1.7	
To eroded Surface Elev, ft	1.916	2.297	2.274	2.162	2.205	2.126	2.041	2.047	1.854	8.556		Vavg (fps) =	1.28	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.125	0.121	0.171	0.213	0.013	0.000	0.317	0.951	navg =	0.170			
Clopper Soil Loss, ft	-0.033	-0.161	-0.003	0.000	0.000	0.000	0.000	0.000	-0.046	-0.121	-0.364	Flow (cfs) =	1.00	1.66	0.53	
Avg Bottom Gain, ft				0.07	Avg Clopper Soil Loss, ft			-0.03								
Cross-section 6	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.978	2.221	2.451	2.474	2.497	2.490	2.408	2.211	1.995	9.378			0.37		1.7	
To eroded Surface Elev, ft	2.087	2.178	2.405	2.372	2.382	2.362	2.303	2.093	1.975	9.044		Vavg (fps) =	0.37	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.043	0.046	0.102	0.115	0.128	0.105	0.118	0.020	0.352	1.056	navg =	0.705			
Clopper Soil Loss, ft	-0.108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.018	-0.054	Flow (cfs) =	0.51	2.17	0.70	
Avg Bottom Gain, ft				0.08	Avg Clopper Soil Loss, ft			-0.01								
Cross-section 7	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.601	1.886	2.142	2.172	2.149	2.159	2.119	1.873	1.627	8.069			2.04		2.0	
To eroded Surface Elev, ft	1.601	1.886	2.162	2.195	2.165	2.175	2.123	1.873	1.627	8.108		Vavg (fps) =	2.04	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.051			
Clopper Soil Loss, ft	0.000	0.000	-0.020	-0.023	-0.016	-0.016	-0.003	0.000	0.000	-0.039	-0.118	Flow (cfs) =	0.71	0.54	0.17	
Avg Bottom Gain, ft				0.00	Avg Clopper Soil Loss, ft			-0.01								
Cross-section 8	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.873	2.123	2.283	2.411	2.438	2.441	2.411	2.182	1.972	9.123			3.1		2.3	
To eroded Surface Elev, ft	1.873	2.123	2.359	2.418	2.454	2.448	2.421	2.182	1.972	9.166		Vavg (fps) =	3.10	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.029			
Clopper Soil Loss, ft	0.000	0.000	-0.075	-0.007	-0.016	-0.007	-0.010	0.000	0.000	-0.043	-0.128	Flow (cfs) =	0.87	0.44	0.14	
Avg Bottom Gain, ft				0.00	Avg Clopper Soil Loss, ft			-0.01								
Cross-section 9	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.860	2.093	2.349	2.388	2.392	2.365	2.320	2.060	1.808	8.903			3.43		2.3	
To eroded Surface Elev, ft	1.860	2.093	2.392	2.434	2.444	2.421	2.375	2.060	1.808	9.021		Vavg (fps) =	3.43	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.025			
Clopper Soil Loss, ft	0.000	0.000	-0.043	-0.046	-0.052	-0.056	-0.056	0.000	0.000	-0.118	-0.354	Flow (cfs) =	0.88	0.40	0.13	
Avg Bottom Gain, ft				0.00	Avg Clopper Soil Loss, ft			-0.03								
Soil Loss / Gain, in	0.000	0.000	0.000	0.007	0.007	0.014	0.016	0.001	0.000	**Volume**		Avg Bottom Gain per Xsection, ft =			0.000	
Clopper Soil Loss, in	-0.002	-0.011	-0.016	-0.012	-0.011	-0.012	-0.011	0.000	-0.003	**[ft³]**	**[in]**	Avg Clopper Soil Loss per Xsection, ft =			-0.013	

Trapezoidal Analysis

Original Surface Elev	227.928	**1 thru 6:**	X-Section Spacing, ft =	5	Original Surface Elev	88.044		**7 thru 9:**	X-Section Spacing, ft = 5
Eroded Surface Elev	227.388		Test Section Length, ft =	40	Eroded Surface Elev	88.651			Test Section Length, ft = 40
Soil Gain	2.871	0.215	gauge spacing, ft =	0.5	Soil Gain	0.000	0.000		gauge spacing, ft = 0.5
CSLI	-2.331	-0.175	hannel width measured, ft =	4	CSLI	-0.607	-0.046		channel width measured, ft = 4

TYPICAL TEST PICTURES

1.0 cfs Flow




Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding




Increased Pondin & Overtopping




End-of-test and Post-test

ASTM D7208

Date: 6/19/12 | Start Time: 4:44 AM | End Time: 5:14 PM

Soil: Sandy Clay | Target Flow (cfs): 2.00 | Slope: 5%

60 ft long flume | 40 ft test section | 2 ft wide flume

RECP: Rock Check | **Anchorage:** over Geotextile

TEST DATA

1 2 3 FLOW

Weir width (ft) = 2

0 ft C D E F G H 5 ft 10 ft 15 ft 20 ft 25 ft 30 ft 35 ft 40 ft

Outlet Weir									Weir						Channel Targets	
Water Depth, in									2.75						1.50	
Water Velocity, ft/s									0.00						5 - 6	
Flow Rate, cfs	0.00								0.00	0.00					2.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.837	2.054	2.320	2.385	2.388	2.379	2.444	2.274	1.939	9.074			4.37		2.2	
To eroded Surface Elev, ft	1.837	2.054	2.320	2.411	2.441	2.464	2.474	2.274	1.939	9.176		Vavg (fps) =	4.37	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.030			
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.026	-0.052	-0.085	-0.030	0.000	0.000	-0.102	-0.305	Flow (cfs) =	2.00	0.79	0.25	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 2	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.041	2.280	2.543	2.602	2.625	2.615	2.615	2.441	2.201	9.926			5.05		2.5	
To eroded Surface Elev, ft	2.041	2.280	2.559	2.625	2.690	2.680	2.638	2.441	2.198	10.020		Vavg (fps) =	5.05	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.002	navg =	0.020			
Clopper Soil Loss, ft	0.000	0.000	-0.016	-0.023	-0.066	-0.066	-0.023	0.000	0.000	-0.094	-0.282	Flow (cfs) =	2.00	0.51	0.16	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 3	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.729	1.988	2.280	2.346	2.346	2.349	2.388	2.172	1.962	8.857			4.95		2.3	
To eroded Surface Elev, ft	1.729	1.988	2.287	2.408	2.444	2.369	2.402	2.172	1.962	8.951		Vavg (fps) =	4.95	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021			
Clopper Soil Loss, ft	0.000	0.000	-0.007	-0.062	-0.098	-0.020	-0.013	0.000	0.000	-0.094	-0.282	Flow (cfs) =	1.79	0.56	0.18	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 4	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.909	2.182	2.438	2.490	2.520	2.526	2.516	2.343	2.116	9.523			3.84		2.1	
To eroded Surface Elev, ft	1.909	2.182	2.444	2.559	2.556	2.484	2.431	2.343	2.162	9.534		Vavg (fps) =	3.84	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.043	0.085	0.000	0.000	0.057	0.171	navg =	0.051			
Clopper Soil Loss, ft	0.000	0.000	-0.007	-0.069	-0.036	0.000	0.000	0.000	-0.046	-0.068	-0.203	Flow (cfs) =	3.50	1.42	0.46	
Avg Bottom Gain, ft	0.01			Avg Clopper Soil Loss, ft				-0.02								
Cross-section 5	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.578	1.854	2.103	2.201	2.224	2.254	2.234	2.123	1.886	8.386			1.8		1.6	
To eroded Surface Elev, ft	1.578	1.877	2.188	2.264	2.231	2.080	2.051	2.133	1.932	8.310		Vavg (fps) =	1.80	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.174	0.184	0.000	0.000	0.177	0.531	navg =	0.136			
Clopper Soil Loss, ft	0.000	-0.023	-0.085	-0.062	-0.007	0.000	0.000	-0.010	-0.046	-0.102	-0.305	Flow (cfs) =	2.27	1.96	0.63	
Avg Bottom Gain, ft	0.04			Avg Clopper Soil Loss, ft				-0.03								
Cross-section 6	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.736	1.975	2.224	2.343	2.352	2.349	2.303	2.172	1.962	8.802			0.86		1.5	
To eroded Surface Elev, ft	1.818	2.070	2.287	2.339	2.313	2.047	1.883	2.080	2.090	8.503		Vavg (fps) =	0.86	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.003	0.039	0.302	0.420	0.092	0.000	0.418	1.253	navg =	0.329			
Clopper Soil Loss, ft	-0.082	-0.095	-0.062	0.000	0.000	0.000	0.000	0.000	-0.128	-0.119	-0.358	Flow (cfs) =	1.35	2.46	0.79	
Avg Bottom Gain, ft	0.10			Avg Clopper Soil Loss, ft				-0.04								
Cross-section 7	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.608	1.886	2.087	2.221	2.205	2.208	2.244	2.051	1.831	8.329			3.6		2.0	
To eroded Surface Elev, ft	1.614	1.886	2.106	2.221	2.208	2.221	2.247	2.051	1.831	8.348		Vavg (fps) =	3.60	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.035			
Clopper Soil Loss, ft	-0.007	0.000	-0.020	0.000	-0.003	-0.013	-0.003	0.000	0.000	-0.019	-0.056	Flow (cfs) =	1.65	0.72	0.23	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.01								
Cross-section 8	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.811	2.057	2.251	2.382	2.388	2.379	2.195	2.073	1.867	8.818			4.42		2.2	
To eroded Surface Elev, ft	1.811	2.057	2.320	2.382	2.405	2.398	2.388	2.165	1.867	8.986		Vavg (fps) =	4.42	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.024			
Clopper Soil Loss, ft	0.000	0.000	-0.069	0.000	-0.016	-0.020	-0.194	-0.092	0.000	-0.167	-0.502	Flow (cfs) =	1.60	0.56	0.18	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.04								
Cross-section 9	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.703	1.946	2.165	2.277	2.303	2.290	2.267	2.083	1.850	8.568			4.8		2.2	
To eroded Surface Elev, ft	1.703	1.946	2.218	2.346	2.356	2.402	2.326	2.083	1.850	8.743		Vavg (fps) =	4.80	Bed Max Shear Stress (psf)	Water Depth (ft)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.022			
Clopper Soil Loss, ft	0.000	0.000	-0.052	-0.069	-0.052	-0.112	-0.059	0.000	0.000	-0.175	-0.525	Flow (cfs) =	1.67	0.54	0.17	
Avg Bottom Gain, ft	0.00			Avg Clopper Soil Loss, ft				-0.04								

Soil Loss / Gain, in	0.000	0.000	0.000	0.000	0.000	0.012	0.015	0.000	0.000	**Volume**		Avg Bottom Gain per Xsection, ft = 0.000
Clopper Soil Loss, in	0.000	-0.001	-0.013	-0.018	-0.018	-0.017	-0.018	-0.006	-0.005	**[ft³]**	**[in]**	Avg Clopper Soil Loss per Xsection, ft = -0.043

Trapezoidal Analysis											
Original Surface Elev	228.147	**1 thru 6:**	X-Section Spacing, ft =	5	Original Surface Elev	86.334		**7 thru 9:**	X-Section Spacing, ft =	5	
Eroded Surface Elev	228.270		Test Section Length, ft =	40	Eroded Surface Elev	87.654			Test Section Length, ft =	40	
Soil Gain	2.217	0.166	gauge spacing, ft =	0.5	Soil Gain	0.000	0.000		gauge spacing, ft =	0.5	
CSLI	-2.340	-0.176	channel width measured, ft =	4	CSLI	-1.321	-0.099		channel width measured, ft =	4	

TYPICAL TEST PICTURES

2.0 cfs Flow




Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding




Increased Ponding and Overtopping




End-of-test and Post-test condition.

ASTM D7208

Date: 7/18/12 | Start Time: 5:00 PM | End Time: 5:30 PM

Soil: Sandy Clay | Target Flow (cfs): 0.50 | Slope: 5%

60 ft long flume | 40 ft test section | 2 ft wide flume

SRD: Silt Fence + | **Installation:** Steel Posts & Wire Fence

TEST DATA

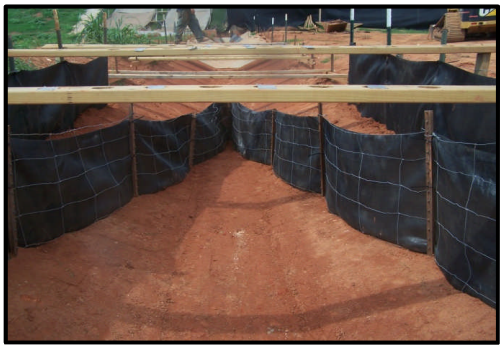
1 2 3 — FLOW — eir width (ft) = 2 — 0 ft C D E F G H — 5 ft — 10 ft — 15 ft — 20 ft — 25 ft — 30 ft — 35 ft — 40 ft

Outlet Weir								Weir						Channel Targets		
Water Depth, in								1.50						1.00		
Water Velocity, ft/s								0.00						0.00		
Flow Rate, cfs	0.00							0.00	0.00					0.00		
Cross-section 1	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.010	1.506	2.034	2.457	2.493	2.457	1.978	1.467	0.991	7.760			3.03		2.4	
To eroded Surface Elev, ft	1.010	1.506	2.034	2.520	2.516	2.500	1.978	1.467	0.991	7.838		Vavg (fps) =	3.03	Bed Max Shear Stress (psf)	Water Depth (ft)	
SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020			
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.062	-0.023	-0.043	0.000	0.000	0.000	-0.078	-0.233	Flow (cfs) =	0.50	0.24	0.08	
Avg Bottom Gain, ft	0.00		Avg Clopper Soil Loss, ft						-0.01							
Cross-section 2	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	0.968	1.509	2.005	2.467	2.510	2.421	1.991	1.555	1.119	7.818			2.13		2.4	
To eroded Surface Elev, ft	0.968	1.509	2.005	2.516	2.523	2.408	1.991	1.555	1.119	7.847		Vavg (fps) =	2.13	Bed Max Shear Stress (psf)	Water Depth (ft)	
SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.009	0.026	navg =	0.040			
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.049	-0.013	0.000	0.000	0.000	0.000	-0.037	-0.112	Flow (cfs) =	0.50	0.40	0.13	
Avg Bottom Gain, ft	0.00		Avg Clopper Soil Loss, ft						-0.01							
Cross-section 3	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	0.892	1.348	1.834	2.290	2.336	2.329	1.804	1.316	0.794	7.128			1.82		2.3	
To eroded Surface Elev, ft	0.892	1.348	1.834	2.444	2.464	2.352	1.804	1.316	0.794	7.289		Vavg (fps) =	1.82	Bed Max Shear Stress (psf)	Water Depth (ft)	
SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.051			
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.154	-0.128	-0.023	0.000	0.000	0.000	-0.161	-0.482	Flow (cfs) =	0.50	0.46	0.15	
Avg Bottom Gain, ft	0.00		Avg Clopper Soil Loss, ft						-0.03							
Cross-section 4	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.129	1.617	2.090	2.556	2.612	2.539	2.047	1.591	1.112	8.159			1.63		2.6	
To eroded Surface Elev, ft	1.129	1.617	2.096	2.644	2.697	2.556	2.060	1.591	1.112	8.264		Vavg (fps) =	1.63	Bed Max Shear Stress (psf)	Water Depth (ft)	
SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.053			
Clopper Soil Loss, ft	0.000	0.000	-0.007	-0.089	-0.085	-0.016	-0.013	0.000	0.000	-0.105	-0.315	Flow (cfs) =	0.50	0.41	0.13	
Avg Bottom Gain, ft	0.00		Avg Clopper Soil Loss, ft						-0.02							
Cross-section 5	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	0.797	1.237	1.752	2.208	2.297	2.244	1.781	1.302	0.830	6.876			1.87		2.1	
To eroded Surface Elev, ft	0.797	1.237	1.837	2.270	2.316	2.260	1.755	1.302	0.830	6.954		Vavg (fps) =	1.87	Bed Max Shear Stress (psf)	Water Depth (ft)	
SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.000	0.000	0.009	0.026	navg =	0.072			
Clopper Soil Loss, ft	0.000	0.000	-0.085	-0.062	-0.020	-0.016	0.000	0.000	0.000	-0.087	-0.262	Flow (cfs) =	0.50	0.80	0.26	
Avg Bottom Gain, ft	0.00		Avg Clopper Soil Loss, ft						-0.02							
Cross-section 6	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.017	1.460	1.923	2.392	2.520	2.490	2.047	1.588	1.109	7.804			0.39		2.1	
To eroded Surface Elev, ft	1.017	1.460	1.903	2.434	2.539	2.490	1.998	1.581	1.109	7.812		Vavg (fps) =	0.39	Bed Max Shear Stress (psf)	Water Depth (ft)	
SoilGain, ft	0.000	0.000	0.020	0.000	0.000	0.000	0.049	0.007	0.000	0.027	0.082	navg =	0.468			
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.043	-0.020	0.000	0.000	0.000	0.000	-0.035	-0.105	Flow (cfs) =	0.32	1.27	0.41	
Avg Bottom Gain, ft	0.01		Avg Clopper Soil Loss, ft						-0.01							
Cross-section 7	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.569	2.897	3.419	3.835	3.878	3.868	3.455	2.927	2.457	13.439			2.75		3.7	
To eroded Surface Elev, ft	2.569	2.877	3.389	3.720	3.901	4.121	3.360	2.972	2.457	13.515		Vavg (fps) =	2.75	Bed Max Shear Stress (psf)	Water Depth (ft)	
SoilGain, ft	0.000	0.020	0.030	0.115	0.000	0.000	0.095	0.000	0.000	0.131	0.394	navg =	0.036			
Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	-0.023	-0.253	0.000	-0.046	0.000	-0.207	-0.620	Flow (cfs) =	0.88	0.50	0.16	
Avg Bottom Gain, ft	0.03		Avg Clopper Soil Loss, ft						-0.04							
Cross-section 8	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.654	2.956	3.494	3.835	4.016	4.029	3.655	3.268	2.799	14.022			2.86		3.9	
To eroded Surface Elev, ft	2.654	2.976	3.537	3.911	4.137	4.101	3.694	3.182	2.808	14.146		Vavg (fps) =	2.86	Bed Max Shear Stress (psf)	Water Depth (ft)	
SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.085	0.000	0.057	0.171	navg =	0.049			
Clopper Soil Loss, ft	0.000	-0.020	-0.043	-0.075	-0.121	-0.072	-0.039	0.000	-0.010	-0.181	-0.543	Flow (cfs) =	1.56	0.85	0.27	
Avg Bottom Gain, ft	0.01		Avg Clopper Soil Loss, ft						-0.04							
Cross-section 9	A	B	C	D	E	F	G	H	I	**[ft²]**	**[in]**	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.530	2.871	3.353	3.835	4.022	4.009	3.652	3.097	2.680	13.752			2.98		3.9	
To eroded Surface Elev, ft	2.539	2.969	3.360	3.858	4.035	4.029	3.645	3.225	2.713	13.943		Vavg (fps) =	2.98	Bed Max Shear Stress (psf)	Water Depth (ft)	
SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.002	0.007	navg =	0.030			
Clopper Soil Loss, ft	-0.010	-0.098	-0.007	-0.023	-0.013	-0.020	0.000	-0.128	-0.033	-0.193	-0.579	Flow (cfs) =	0.84	0.44	0.14	
Avg Bottom Gain, ft	0.00		Avg Clopper Soil Loss, ft						-0.04							
Soil Gain, in	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.005	0.000	**Volume**		Avg Bottom Gain per Xsection, ft =		0.001		
Clopper Soil Loss, in	-0.001	-0.007	-0.008	-0.029	-0.023	-0.011	-0.003	-0.007	-0.002	**[ft³]**	**[in]**	Avg Clopper Soil Loss per Xsection, ft =		-0.037		

Trapezoidal Analysis														
Original Surface Elev	188.815	**1 thru 6:**	X-Section Spacing, ft =	5	Original Surface Elev	138.091		**7 thru 9:**	X-Section Spacing, ft =	5				
Eroded Surface Elev	190.893		Test Section Length, ft =	40	Eroded Surface Elev	139.377			Test Section Length, ft =	40				
Soil Gain	0.156	0.012	gauge spacing, ft =	1	Soil Gain	0.618	0.046		gauge spacing, ft =	0.5				
CSLI	-2.234	-0.168	channel width measured, ft =	8	CSLI	-1.904	-0.143		channel width measured, ft =	4				

TYPICAL TEST PICTURES

0.5 cfs Flow

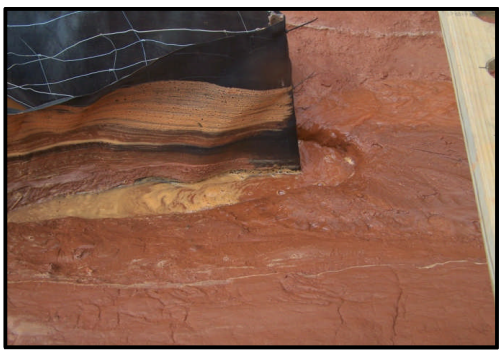
Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding Starting




Increased Ponding Reaches Maximum and then Blows Out Under Fence

Post-test With Upstream Scour Hole

ASTM D7208	Date: 7/20/12	Start Time: 5:00 PM	End Time: 5:30 PM
	Soil: Sandy Clay	Target Flow (cfs): 0.50	Slope: 5%
60 ft long flume	40 ft test section	**SRD:** Silt Fence +	**Installation:** Steel Posts & Wire Fence
	2 ft wide flume		

TEST DATA

	1	2	3	Outlet Weir								Weir						Channel Targets	
	FLOW			Water Depth, in								1.50						1.00	
Weir width (ft) = 2				Water Velocity, ft/s								0.00						0.00	
0 ft	C	D	E F G	H	Flow Rate, cfs	0.00							0.00	0.00					0.00	

	Cross-section 1	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.928	1.371	1.864	2.303	2.392	2.369	1.880	1.411	0.981	7.333			2.96		2.3
	To eroded Surface Elev, ft	0.928	1.371	1.864	2.467	2.431	2.425	1.890	1.411	0.981	7.496		Vavg (fps) =	2.96	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.024		
	Clopper Soil Loss, ft	0.000	0.000	0.000	-0.164	-0.039	-0.056	-0.010	0.000	0.000	-0.163	-0.489	Flow (cfs) =	0.50	0.31	0.10
5 ft				Avg Bottom Gain, ft	0.00		Avg Clopper Soil Loss, ft			-0.03						

	Cross-section 2	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.965	1.470	1.975	2.431	2.520	2.484	2.011	1.555	1.102	7.806			2.91		2.4
	To eroded Surface Elev, ft	0.965	1.470	1.975	2.628	2.598	2.513	2.011	1.555	1.102	7.983		Vavg (fps) =	2.91	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.033		
	Clopper Soil Loss, ft	0.000	0.000	0.000	-0.197	-0.079	-0.030	0.000	0.000	0.000	-0.177	-0.531	Flow (cfs) =	0.50	0.49	0.16
10 ft				Avg Bottom Gain, ft	0.00		Avg Clopper Soil Loss, ft			-0.03						

	Cross-section 3	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.925	1.401	1.870	2.402	2.405	2.303	1.818	1.375	0.915	7.324			2.81		2.4
	To eroded Surface Elev, ft	0.925	1.401	1.893	2.579	2.546	2.300	1.818	1.375	0.915	7.495		Vavg (fps) =	2.81	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.002	0.007	navg =	0.033		
	Clopper Soil Loss, ft	0.000	0.000	-0.023	-0.177	-0.141	0.000	0.000	0.000	0.000	-0.173	-0.518	Flow (cfs) =	0.50	0.46	0.15
15 ft				Avg Bottom Gain, ft	0.00		Avg Clopper Soil Loss, ft			-0.04						

	Cross-section 4	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	1.106	1.581	2.110	2.582	2.651	2.562	2.083	1.627	1.171	8.229			2.99		2.4
	To eroded Surface Elev, ft	1.106	1.581	2.090	2.677	2.717	2.441	2.087	1.627	1.171	8.228		Vavg (fps) =	2.99	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.020	0.000	0.000	0.121	0.000	0.000	0.000	0.087	0.262	navg =	0.054		
	Clopper Soil Loss, ft	0.000	0.000	0.000	-0.095	-0.066	0.000	-0.003	0.000	0.000	-0.086	-0.259	Flow (cfs) =	0.50	1.05	0.34
20 ft				Avg Bottom Gain, ft	0.02		Avg Clopper Soil Loss, ft			-0.02						

	Cross-section 5	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.830	1.293	1.818	2.297	2.365	2.300	1.798	1.322	1.194	7.139			0.78		1.9
	To eroded Surface Elev, ft	0.830	1.293	1.883	2.336	2.365	2.073	1.857	1.322	1.194	7.055		Vavg (fps) =	0.78	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.226	0.000	0.000	0.000	0.151	0.453	navg =	0.239		
	Clopper Soil Loss, ft	0.000	0.000	-0.066	-0.039	0.000	0.000	-0.059	0.000	0.000	-0.068	-0.203	Flow (cfs) =	0.50	1.31	0.42
25 ft				Avg Bottom Gain, ft	0.03		Avg Clopper Soil Loss, ft			-0.02						

	Cross-section 6	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	1.047	1.506	1.972	2.451	2.503	2.425	1.959	1.526	1.109	7.775			0.72		2.0
	To eroded Surface Elev, ft	1.047	1.506	1.959	2.385	2.523	2.257	2.031	1.493	1.109	7.624		Vavg (fps) =	0.72	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.013	0.066	0.000	0.167	0.000	0.033	0.000	0.182	0.545	navg =	0.313		
	Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	-0.020	0.000	-0.072	0.000	0.000	-0.031	-0.092	Flow (cfs) =	0.80	1.74	0.56
30 ft				Avg Bottom Gain, ft	0.03		Avg Clopper Soil Loss, ft			-0.01						

	Cross-section 7	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	2.661	2.838	3.310	3.907	3.927	3.944	3.494	2.966	2.631	13.562			2.75		3.7
	To eroded Surface Elev, ft	2.605	2.927	3.337	3.917	4.049	4.098	3.642	3.123	2.992	13.985		Vavg (fps) =	2.75	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.056	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.028	navg =	0.058		
	Clopper Soil Loss, ft	0.000	-0.089	-0.026	-0.010	-0.121	-0.154	-0.148	-0.157	-0.361	-0.432	-1.296	Flow (cfs) =	1.82	1.03	0.33
35 ft				Avg Bottom Gain, ft	0.01		Avg Clopper Soil Loss, ft			-0.12						

	Cross-section 8	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	2.730	3.045	3.576	4.006	4.147	4.127	3.773	3.255	2.858	14.385			3.07		4.1
	To eroded Surface Elev, ft	2.700	2.940	3.704	4.055	4.213	4.160	3.753	3.228	2.648	14.370		Vavg (fps) =	3.07	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.030	0.105	0.000	0.000	0.000	0.000	0.020	0.026	0.210	0.134	0.402	navg =	0.032		
	Clopper Soil Loss, ft	0.000	0.000	-0.128	-0.049	-0.066	-0.033	0.000	0.000	0.000	-0.119	-0.358	Flow (cfs) =	0.99	0.50	0.16
40 ft				Avg Bottom Gain, ft	0.04		Avg Clopper Soil Loss, ft			-0.03						

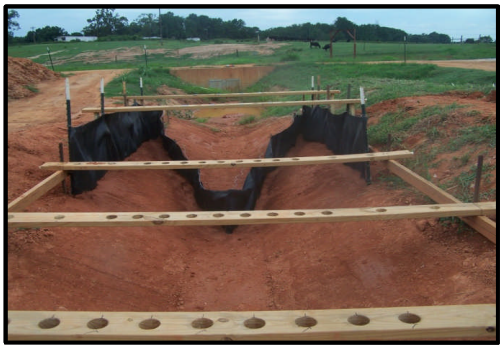
	Cross-section 9	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	2.618	2.913	3.330	3.822	4.003	3.999	3.632	3.107	2.644	13.760			3.06		3.9
	To eroded Surface Elev, ft	2.618	2.874	3.327	3.724	3.930	4.062	3.501	3.015	2.644	13.579		Vavg (fps) =	3.06	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.039	0.003	0.098	0.072	0.000	0.131	0.092	0.000	0.222	0.666	navg =	#NUM!		
CJS	Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	-0.062	0.000	0.000	0.000	-0.042	-0.125	Flow (cfs) =	#NUM!	-0.02	-0.01
				Avg Bottom Gain, ft	0.05		Avg Clopper Soil Loss, ft			-0.01						

											Volume		Avg Bottom Gain per Xsection, ft = 0.048
Soil Gain, in	0.002	0.008	0.001	0.006	0.004	0.020	0.008	0.007	0.012		[ft³]	[in]	Avg Clopper Soil Loss per Xsection, ft = -0.007
Clopper Soil Loss, in	0.000	0.000	-0.012	-0.041	-0.022	-0.010	-0.004	0.000	0.000				

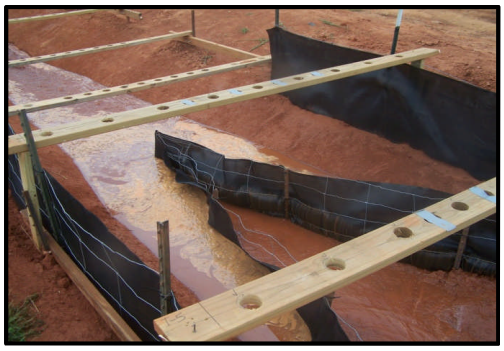
Trapezoidal Analysis														
	Original Surface Elev	190.263	1 thru 6:	X-Section Spacing, ft =	5	Original Surface Elev	140.230		7 thru 9:	X-Section Spacing, ft =	5			
	Eroded Surface Elev	191.611		Test Section Length, ft =	40	Eroded Surface Elev	140.762			Test Section Length, ft =	40			
	Soil Gain	1.657	0.124	gauge spacing, ft =	1	Soil Gain	1.248	0.094			gauge spacing, ft =	0.5		
	CSLI	-3.005	-0.225	channel width measured, ft =	8	CSLI	-1.780	-0.133		channel width measured, ft =	4			

TYPICAL TEST PICTURES

0.5 cfs Flow (RETEST)

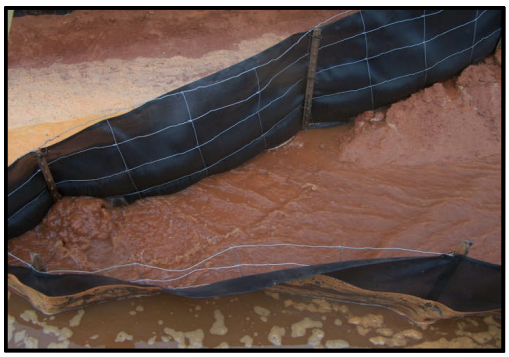
Check Structure Installation over Bare Soil

Initial Flow & Upstream Ponding




Increased Ponding & Very Near Overtopping




Close-up of Blowout and End-of-test Upstream Scour Hole

ASTM D7208

Date: 1/0/00 Start Time: 12:00 AM End Time: 12:00 AM

Soil: Sandy Clay Target Flow (cfs): 2.00 Slope: 5%

60 ft long flume 40 ft test section **SRD:** 0 **Installation:** 0

2 ft wide flume

1 2 3 **Outlet Weir** **TEST DATA**

FLOW Water Depth, in 0.00 0.00

Weir width (ft) = 2 Water Velocity, ft/s 0.00 0.00

0 ft C D E F G H Flow Rate, cfs 0.00 0.00 0.00

		A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	Cross-section 1															
	To original Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			0		0.0
	To eroded Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		Vavg (fps) =	0.00	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	#DIV/0!		
	Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Flow (cfs) =	2.00	0.00	0.00
5 ft		Avg Bottom Gain, ft			0.00		Avg Clopper Soil Loss, ft			0.00						
	Cross-section 2	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			0		0.0
	To eroded Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		Vavg (fps) =	0.00	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	#DIV/0!		
	Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Flow (cfs) =	2.00	0.00	0.00
10 ft		Avg Bottom Gain, ft			0.00		Avg Clopper Soil Loss, ft			0.00						
	Cross-section 3	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			0		0.0
	To eroded Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		Vavg (fps) =	0.00	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	#DIV/0!		
	Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Flow (cfs) =	#DIV/0!	0.00	0.00
15 ft		Avg Bottom Gain, ft			0.00		Avg Clopper Soil Loss, ft			0.00						
	Cross-section 4	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			0		0.0
	To eroded Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		Vavg (fps) =	0.00	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	#DIV/0!		
	Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Flow (cfs) =	#DIV/0!	0.00	0.00
20 ft		Avg Bottom Gain, ft			0.00		Avg Clopper Soil Loss, ft			0.00						
	Cross-section 5	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			0		0.0
	To eroded Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		Vavg (fps) =	0.00	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	#DIV/0!		
	Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Flow (cfs) =	#DIV/0!	0.00	0.00
25 ft		Avg Bottom Gain, ft			0.00		Avg Clopper Soil Loss, ft			0.00						
	Cross-section 6	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			0		0.0
	To eroded Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		Vavg (fps) =	0.00	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	#DIV/0!		
	Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Flow (cfs) =	#DIV/0!	0.00	0.00
30 ft		Avg Bottom Gain, ft			0.00		Avg Clopper Soil Loss, ft			0.00						
	Cross-section 7	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			0		0.0
	To eroded Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		Vavg (fps) =	0.00	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	#DIV/0!		
	Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Flow (cfs) =	#DIV/0!	0.00	0.00
35 ft		Avg Bottom Gain, ft			0.00		Avg Clopper Soil Loss, ft			0.00						
	Cross-section 8	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			0		0.0
	To eroded Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		Vavg (fps) =	0.00	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	#DIV/0!		
	Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Flow (cfs) =	#DIV/0!	0.00	0.00
40 ft		Avg Bottom Gain, ft			0.00		Avg Clopper Soil Loss, ft			0.00						
	Cross-section 9	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
	To original Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			0		0.0
	To eroded Surface Elev, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		Vavg (fps) =	0.00	Bed Max Shear Stress (psf)	Water Depth (ft)
	SoilGain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	#DIV/0!		
	Clopper Soil Loss, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Flow (cfs) =	#DIV/0!	0.00	0.00
		Avg Bottom Gain, ft			0.00		Avg Clopper Soil Loss, ft			0.00						

Soil Gain, in	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**Volume**		Avg Bottom Gain per Xsection, ft =	0.000		
Clopper Soil Loss, in	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	[ft³]	[in]	Avg Clopper Soil Loss per Xsection, ft =	0.000		

TYPICAL TEST PICTURES

2.0 cfs Flow




Check Structure Installation over Bare Soil




Initial Flow & Upstream Ponding




Increased Ponding and Overtopping




End-of-test and Post-test condition.

ASTM D7208

Date: 6/21/12 | Start Time: 3:58 PM | End Time: 4:28 PM

Soil: Sandy Clay | Target Flow (cfs): 0.50 | Slope: 5%

60 ft long flume | 40 ft test section | **SRD:** Control | **Installation:** Bare Soil

2 ft wide flume

FLOW

eir width (ft) = 2

0 ft C D E F G H

5 ft

10 ft

15 ft

20 ft

25 ft

30 ft

35 ft

40 ft

TEST DATA

Outlet Weir									Weir						Channel Targets	
Water Depth, in									1.50						1.00	
Water Velocity, ft/s									0.00						3 - 4	
Flow Rate, cfs	0.00								0.00	0.00					0.50	
Cross-section 1	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.808	2.041	2.293	2.310	2.320	2.306	2.306	2.067	1.821	8.727			2.31		2.2	
To eroded Surface Elev, ft	1.808	2.041	2.313	2.310	2.336	2.320	2.310	2.067	1.821	8.749		Vavg (fps) =	2.31	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.030		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.020	0.000	-0.016	-0.013	-0.003	0.000	0.000	-0.022	-0.066	Flow (cfs) =	0.00	0.30	0.10	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.01							
Cross-section 2	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.913	2.175	2.405	2.454	2.493	2.474	2.431	2.208	1.982	9.300			2.61		2.4	
To eroded Surface Elev, ft	1.913	2.175	2.405	2.484	2.516	2.493	2.431	2.208	1.982	9.340		Vavg (fps) =	2.61	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.024		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.030	-0.023	-0.020	0.000	0.000	0.000	-0.040	-0.121	Flow (cfs) =	0.00	0.26	0.08	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.01							
Cross-section 3	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.831	2.080	2.290	2.316	2.336	2.310	2.287	2.001	1.768	8.709			2.81		2.2	
To eroded Surface Elev, ft	1.831	2.080	2.323	2.343	2.336	2.310	2.303	2.001	1.768	8.743		Vavg (fps) =	2.81	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.023		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.033	-0.026	0.000	0.000	-0.016	0.000	0.000	-0.034	-0.102	Flow (cfs) =	0.00	0.28	0.09	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.01							
Cross-section 4	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.051	2.320	2.533	2.536	2.559	2.549	2.480	2.234	1.985	9.623			3.03		2.5	
To eroded Surface Elev, ft	2.051	2.320	2.556	2.559	2.579	2.589	2.507	2.234	1.985	9.687		Vavg (fps) =	3.03	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.023	-0.023	-0.020	-0.039	-0.026	0.000	0.000	-0.065	-0.194	Flow (cfs) =	0.00	0.24	0.08	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.01							
Cross-section 5	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.873	2.152	2.316	2.310	2.326	2.306	2.283	2.021	1.788	8.778			2.96		2.2	
To eroded Surface Elev, ft	1.873	2.152	2.343	2.329	2.329	2.359	2.320	2.021	1.788	8.848		Vavg (fps) =	2.96	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.023		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.026	-0.020	-0.003	-0.052	-0.036	0.000	0.000	-0.070	-0.210	Flow (cfs) =	0.00	0.30	0.10	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.02							
Cross-section 6	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.949	2.188	2.438	2.490	2.523	2.513	2.520	2.287	2.073	9.483			3.1		2.4	
To eroded Surface Elev, ft	1.949	2.188	2.467	2.536	2.526	2.530	2.539	2.287	2.073	9.542		Vavg (fps) =	3.10	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.030	-0.046	-0.003	-0.016	-0.020	0.000	0.000	-0.059	-0.177	Flow (cfs) =	0.51	0.26	0.08	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.01							
Cross-section 7	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.706	2.005	2.198	2.218	2.208	2.205	2.152	1.893	1.647	8.292			3.15		2.1	
To eroded Surface Elev, ft	1.706	2.005	2.224	2.260	2.224	2.231	2.175	1.893	1.647	8.360		Vavg (fps) =	3.15	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.026	-0.043	-0.016	-0.026	-0.023	0.000	0.000	-0.068	-0.203	Flow (cfs) =	0.52	0.26	0.08	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.01							
Cross-section 8	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.896	2.156	2.408	2.454	2.484	2.500	2.438	2.231	1.995	9.319			3.18		2.4	
To eroded Surface Elev, ft	1.896	2.156	2.434	2.516	2.500	2.552	2.474	2.231	1.995	9.421		Vavg (fps) =	3.18	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.026	-0.062	-0.016	-0.052	-0.036	0.000	0.000	-0.103	-0.308	Flow (cfs) =	0.56	0.28	0.09	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.02							
Cross-section 9	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.870	2.119	2.365	2.425	2.408	2.402	2.333	2.106	1.837	9.021			3.2		2.4	
To eroded Surface Elev, ft	1.870	2.119	2.425	2.464	2.434	2.434	2.356	2.106	1.837	9.105		Vavg (fps) =	3.20	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.019		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.059	-0.039	-0.026	-0.033	-0.023	0.000	0.000	-0.084	-0.253	Flow (cfs) =	0.50	0.25	0.08	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.02							
Avg Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**Volume**		Avg Bottom Gain per Xsection, ft =		0.000		
Avg Clopper Soil Loss, ft	0.000	0.000	-0.027	-0.029	-0.015	-0.030	-0.020	0.000	0.000	[ft³]	[in]	Avg Clopper Soil Loss per Xsection, ft =		-0.006		

Original Surface Elev	367.002	
Eroded Surface Elev	369.530	
Soil Loss/ Gain	0.000	0.000
CSLI	-2.528	-0.190

X-Section Spacing, ft = 5

Test Section Length, ft = 40

gauge spacing, ft = 0.5

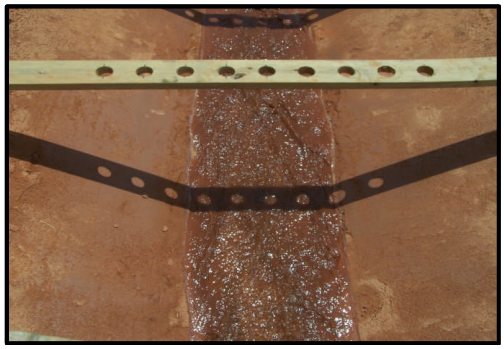
channel width measured, ft = 4

TYPICAL TEST PICTURES

0.5 cfs Flow




Control Channel Prepared

Initial Flow




On-going Flow . . . And Erosion




End-of-test Eroded Condition.

ASTM D7208

Date: 6/21/12 | Start Time: 4:07 PM | End Time: 4:37 PM

Soil: Sandy Clay | Target Flow (cfs): 1.00 | Slope: 5%

60 ft long flume | 40 ft test section | **RECP:** Control | **Anchorage:** Bare Soil

2 ft wide flume

TEST DATA

Outlet Weir | Weir: Water Depth, in = 2.25; Water Velocity, ft/s = 0.00; Flow Rate, cfs = 0.00 | Channel Targets: 1.50 / 4 - 5 / 1.00

FLOW

eir width (ft) = 2

0 ft C D E F G H

	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
Cross-section 1															
To original Surface Elev, ft	1.873	2.093	2.310	2.333	2.346	2.352	2.339	2.119	1.880	8.889			3.78		2.3
To eroded Surface Elev, ft	1.873	2.093	2.310	2.388	2.398	2.415	2.382	2.119	1.880	8.999		Vavg (fps) =	3.78	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.023		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	0.000	-0.056	-0.052	-0.062	-0.043	0.000	0.000	-0.110	-0.331	Flow (cfs) =	1.00	0.42	0.13
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft		-0.02							

5 ft Straw Bales

	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
Cross-section 2															
To original Surface Elev, ft	2.244	2.474	2.651	2.680	2.661	2.654	2.549	2.320	2.073	10.092			3.94		2.6
To eroded Surface Elev, ft	2.244	2.474	2.684	2.707	2.707	2.684	2.585	2.320	2.073	10.167		Vavg (fps) =	3.94	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.033	-0.026	-0.046	-0.030	-0.036	0.000	0.000	-0.075	-0.226	Flow (cfs) =	1.00	0.40	0.13
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft		-0.02							

10 ft

	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
Cross-section 3															
To original Surface Elev, ft	1.847	2.133	2.303	2.339	2.362	2.359	2.362	2.133	1.867	8.937			4.03		2.3
To eroded Surface Elev, ft	1.847	2.133	2.326	2.408	2.415	2.405	2.421	2.133	1.867	9.058		Vavg (fps) =	4.03	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.023	-0.069	-0.052	-0.046	-0.059	0.000	0.000	-0.121	-0.364	Flow (cfs) =	1.00	0.39	0.12
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft		-0.03							

15 ft

	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
Cross-section 4															
To original Surface Elev, ft	2.041	2.303	2.480	2.516	2.520	2.516	2.477	2.238	1.988	9.546			3.99		2.4
To eroded Surface Elev, ft	2.041	2.303	2.552	2.556	2.543	2.543	2.507	2.238	1.988	9.631		Vavg (fps) =	3.99	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.072	-0.039	-0.023	-0.026	-0.030	0.000	0.000	-0.085	-0.256	Flow (cfs) =	1.00	0.36	0.11
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft		-0.02							

20 ft

	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
Cross-section 5															
To original Surface Elev, ft	1.621	1.880	2.139	2.208	2.238	2.228	2.221	2.064	1.867	8.367			3.94		2.1
To eroded Surface Elev, ft	1.621	1.880	2.201	2.267	2.270	2.270	2.238	2.064	1.867	8.472		Vavg (fps) =	3.94	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.062	-0.059	-0.033	-0.043	-0.016	0.000	0.000	-0.105	-0.315	Flow (cfs) =	1.00	0.40	0.13
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft		-0.02							

25 ft

	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
Cross-section 6															
To original Surface Elev, ft	1.696	1.949	2.182	2.306	2.326	2.336	2.333	2.188	1.949	8.741			3.94		2.3
To eroded Surface Elev, ft	1.696	1.949	2.218	2.405	2.392	2.382	2.359	2.188	1.949	8.880		Vavg (fps) =	3.94	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.036	-0.098	-0.066	-0.046	-0.026	0.000	0.000	-0.139	-0.417	Flow (cfs) =	1.01	0.40	0.13
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft		-0.03							

30 ft

	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
Cross-section 7															
To original Surface Elev, ft	1.752	1.995	2.251	2.290	2.310	2.293	2.303	2.126	1.873	8.695			4.08		2.2
To eroded Surface Elev, ft	1.752	1.995	2.283	2.336	2.336	2.333	2.365	2.126	1.873	8.792		Vavg (fps) =	4.08	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.019		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.033	-0.046	-0.026	-0.039	-0.062	0.000	0.000	-0.097	-0.292	Flow (cfs) =	0.91	0.35	0.11
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft		-0.02							

35 ft

	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
Cross-section 8															
To original Surface Elev, ft	1.808	2.060	2.323	2.385	2.411	2.405	2.375	2.188	1.926	9.018			4.05		2.3
To eroded Surface Elev, ft	1.808	2.060	2.375	2.405	2.467	2.454	2.411	2.188	1.926	9.112		Vavg (fps) =	4.05	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.052	-0.020	-0.056	-0.049	-0.036	0.000	0.000	-0.094	-0.282	Flow (cfs) =	1.06	0.41	0.13
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft		-0.02							

40 ft CJS 6/30/2012

	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft
Cross-section 9															
To original Surface Elev, ft	1.693	1.903	2.142	2.274	2.290	2.290	2.313	2.123	1.844	8.564			4.1		2.2
To eroded Surface Elev, ft	1.693	1.903	2.175	2.336	2.356	2.326	2.339	2.123	1.844	8.671		Vavg (fps) =	4.10	Bed Max Shear Stress (psf)	
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020		Water Depth (ft)
Clopper Soil Loss, ft	0.000	0.000	-0.033	-0.062	-0.066	-0.036	-0.026	0.000	0.000	-0.107	-0.322	Flow (cfs) =	1.02	0.39	0.12
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft		-0.02							

	A	B	C	D	E	F	G	H	I	Volume [ft³]	[in]
Avg Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Avg Clopper Soil Loss, ft	0.000	0.000	-0.039	-0.047	-0.047	-0.042	-0.035	0.000	0.000		

Avg Bottom Gain per Xsection, ft = 0.000

Avg Clopper Soil Loss per Xsection, ft = -0.024

Original Surface Elev	365.061	
Eroded Surface Elev	369.127	
Soil Loss/ Gain	0.000	0.000
CSLI	-4.066	-0.305

X-Section Spacing, ft = 5

Test Section Length, ft = 40

gauge spacing, ft = 0.5

channel width measured, ft = 4

TYPICAL TEST PICTURES

1.0 cfs Flow



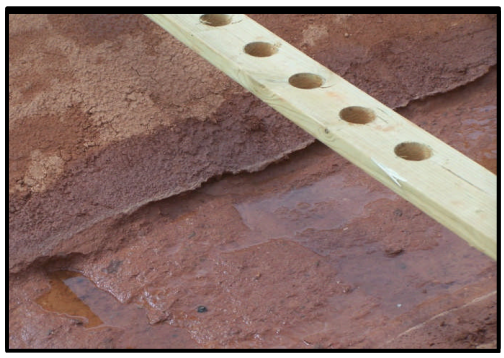

Control Channel Prepared




Initial Flow & Inlet Weir




On-going Flow . . . And Erosion

End-of-test Eroded Condition.

ASTM D7208

Date: 6/27/12 | Start Time: 2:29 PM | End Time: 2:59 PM

Soil: Sandy Clay | Target Flow (cfs): 2.00 | Slope: 5%

60 ft long flume | 40 ft test section | **RECP:** Control | **Anchorage:** Bare Soil

2 ft wide flume

FLOW

Weir width (ft) = 2

0 ft C D E F G H

5 ft

10 ft

15 ft

20 ft

25 ft

30 ft

35 ft

40 ft

CJS 6/30/2012

TEST DATA

Outlet Weir									Weir						Channel Targets	
Water Depth, in									2.50						1.75	
Water Velocity, ft/s									0.00						5.5 - 6	
Flow Rate, cfs	0.00								0.00	0.00					2.00	
Cross-section 1	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.814	2.047	2.303	2.329	2.339	2.346	2.320	2.116	1.870	8.827			4.84		2.2	
To eroded Surface Elev, ft	1.814	2.047	2.343	2.382	2.365	2.392	2.356	2.116	1.870	8.927		Vavg (fps) =	4.84	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.022		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.039	-0.052	-0.026	-0.046	-0.036	0.000	0.000	-0.100	-0.299	Flow (cfs) =	2.00	0.57	0.18	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.02							
Cross-section 2	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.923	2.126	2.402	2.441	2.461	2.441	2.411	2.188	1.972	9.204			4.8		2.3	
To eroded Surface Elev, ft	1.923	2.126	2.418	2.539	2.497	2.533	2.490	2.188	1.972	9.375		Vavg (fps) =	4.80	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.023		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.016	-0.098	-0.036	-0.092	-0.079	0.000	0.000	-0.171	-0.512	Flow (cfs) =	2.00	0.59	0.19	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.04							
Cross-section 3	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.745	1.972	2.211	2.270	2.306	2.267	2.238	2.008	1.814	8.523			4.9		2.2	
To eroded Surface Elev, ft	1.749	1.972	2.283	2.395	2.336	2.310	2.359	2.008	1.814	8.710		Vavg (fps) =	4.90	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		Water Depth (ft)	
Clopper Soil Loss, ft	-0.003	0.000	-0.072	-0.125	-0.030	-0.043	-0.121	0.000	0.000	-0.186	-0.559	Flow (cfs) =	1.74	0.55	0.18	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.04							
Cross-section 4	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	2.018	2.274	2.493	2.549	2.572	2.536	2.520	2.287	2.037	9.635			5.1		2.4	
To eroded Surface Elev, ft	2.018	2.274	2.713	2.579	2.595	2.575	2.648	2.287	2.037	9.804		Vavg (fps) =	5.10	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.220	-0.030	-0.023	-0.039	-0.128	0.000	0.000	-0.170	-0.509	Flow (cfs) =	1.81	0.55	0.18	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.05							
Cross-section 5	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.781	2.051	2.228	2.254	2.277	2.274	2.238	2.021	1.788	8.575			5.05		2.1	
To eroded Surface Elev, ft	1.788	2.051	2.320	2.316	2.323	2.323	2.310	2.021	1.788	8.720		Vavg (fps) =	5.05	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.023		Water Depth (ft)	
Clopper Soil Loss, ft	-0.007	0.000	-0.092	-0.062	-0.046	-0.049	-0.072	0.000	0.000	-0.145	-0.436	Flow (cfs) =	2.09	0.64	0.21	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.04							
Cross-section 6	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.909	2.169	2.421	2.487	2.510	2.513	2.474	2.290	2.057	9.435			5.15		2.4	
To eroded Surface Elev, ft	1.909	2.169	2.536	2.523	2.559	2.530	2.687	2.290	2.057	9.596		Vavg (fps) =	5.15	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.115	-0.036	-0.049	-0.016	-0.213	0.000	0.000	-0.161	-0.482	Flow (cfs) =	1.76	0.53	0.17	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.05							
Cross-section 7	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.617	1.896	2.126	2.175	2.195	2.192	2.149	1.959	1.690	8.189			5.1		2.1	
To eroded Surface Elev, ft	1.624	1.896	2.195	2.264	2.241	2.247	2.234	1.959	1.690	8.353		Vavg (fps) =	5.10	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.021		Water Depth (ft)	
Clopper Soil Loss, ft	-0.007	0.000	-0.069	-0.089	-0.046	-0.056	-0.085	0.000	0.000	-0.164	-0.492	Flow (cfs) =	1.87	0.57	0.18	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.04							
Cross-section 8	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.795	2.031	2.303	2.359	2.402	2.415	2.392	2.234	2.011	9.026			5.1		2.3	
To eroded Surface Elev, ft	1.791	2.031	2.402	2.451	2.493	2.480	2.467	2.234	2.011	9.219		Vavg (fps) =	5.10	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	navg =	0.020		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.098	-0.092	-0.092	-0.066	-0.075	0.000	0.000	-0.194	-0.581	Flow (cfs) =	1.67	0.51	0.16	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.05							
Cross-section 9	A	B	C	D	E	F	G	H	I	[ft²]	[in]	V @ 0.2d	V @ 0.6d	V @ 0.8d	To Water Surf, ft	
To original Surface Elev, ft	1.827	2.080	2.310	2.359	2.385	2.352	2.320	2.083	1.824	8.863			5.17		2.3	
To eroded Surface Elev, ft	1.827	2.080	2.457	2.474	2.467	2.375	2.425	2.083	1.824	9.067		Vavg (fps) =	5.17	Bed Max Shear Stress (psf)		
Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	navg =	0.020		Water Depth (ft)	
Clopper Soil Loss, ft	0.000	0.000	-0.148	-0.115	-0.082	-0.023	-0.105	0.000	0.000	-0.203	-0.610	Flow (cfs) =	1.83	0.55	0.18	
Avg Bottom Gain, ft	0.00					Avg Clopper Soil Loss, ft			-0.05							
Avg Soil Gain, ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	**Volume**		Avg Bottom Gain per Xsection, ft =		0.000		
Avg Clopper Soil Loss, ft	-0.001	0.000	-0.098	-0.082	-0.048	-0.051	-0.088	0.000	0.000	[ft³]	[in]	Avg Clopper Soil Loss per Xsection, ft =		-0.022		

Original Surface Elev	362.440	
Eroded Surface Elev	369.224	
Soil Loss/ Gain	0.004	0.000
CSLI	-6.788	-0.509

X-Section Spacing, ft = 5

Test Section Length, ft = 40

gauge spacing, ft = 0.5

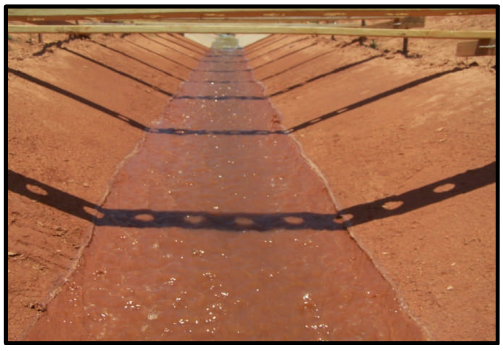
channel width measured, ft = 4

TYPICAL TEST PICTURES

2.0 cfs Flow



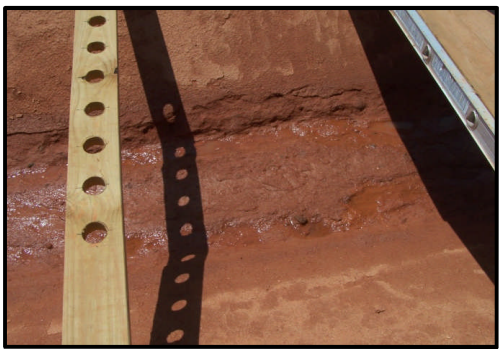

Control Channel Prepared

Initial Flow & Closeup




On-going Flow . . . And Erosion

End-of-test Eroded Condition.