0033

From: "Michael Hansen" <Mhansen@rbgengineering.com>
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Date: 4/10/2006 8:19:59 AM
Subject: Grassy Trail Seismic update 4-7-06

Hi,

Here is our seismic, inclinometer, and piezometer update for April 7, 2006.

thanks

Michael Hansen
Engineering Geologist

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RB&G ENGINEERING
Grassy Trail Dam, Seismic Summary for April 7, 2006

For the one-week period between March 31 and, April 7, 2006 the number of MIS (Mining Induced Seismicity) earthquakes recorded near the site by the UUSS was 9. These MIS earthquakes ranged in magnitude from 1.3 to a high of 2.1.

The number of events recorded on the Hillside seismic unit decreased during the past week from 65 to **52** seismic events. The Dam unit decreased from 50 to **45** events.

During the week Peak Ground Acceleration (PGA) values decreased on the Hillside from last weeks high of 0.242g to 0.**159g**. PGA values on the Dam decreased from 0.182g to **0.144g**.

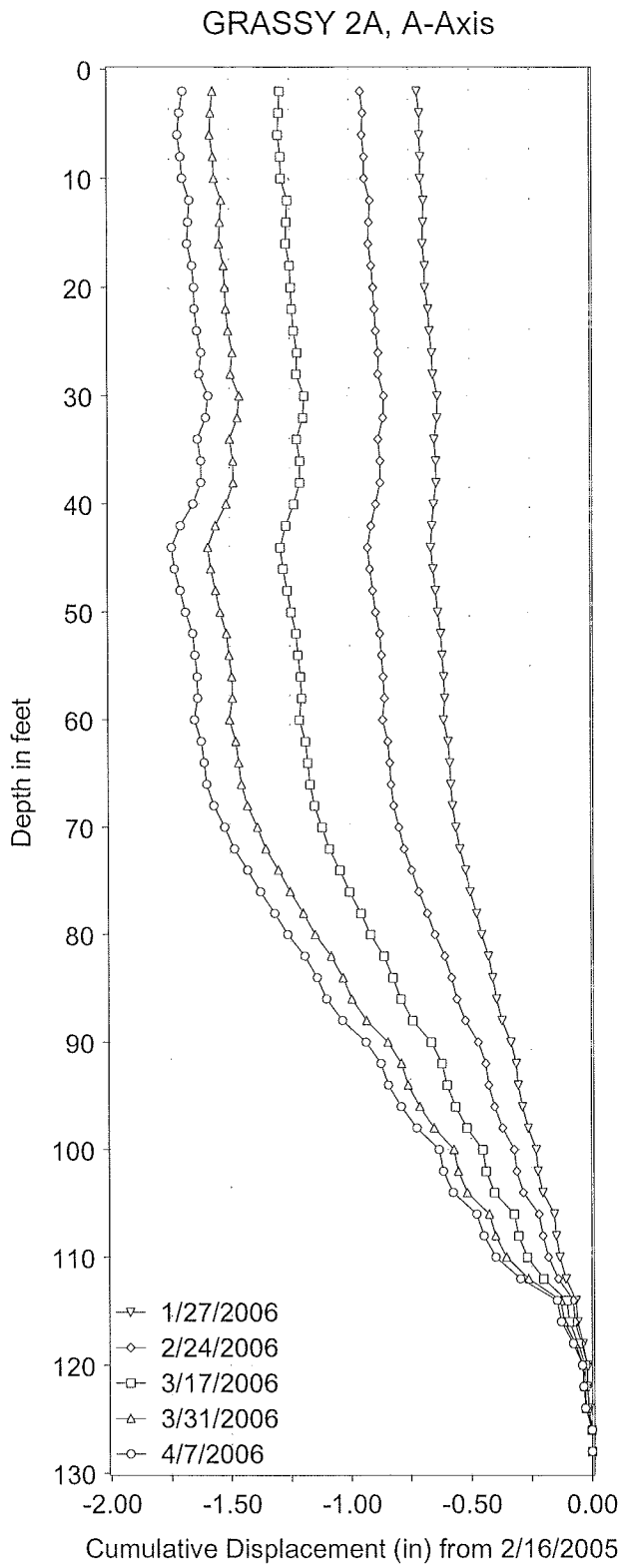
As mining continues to move away from the axis of the dam PGA values appear to be gradually decreasing.

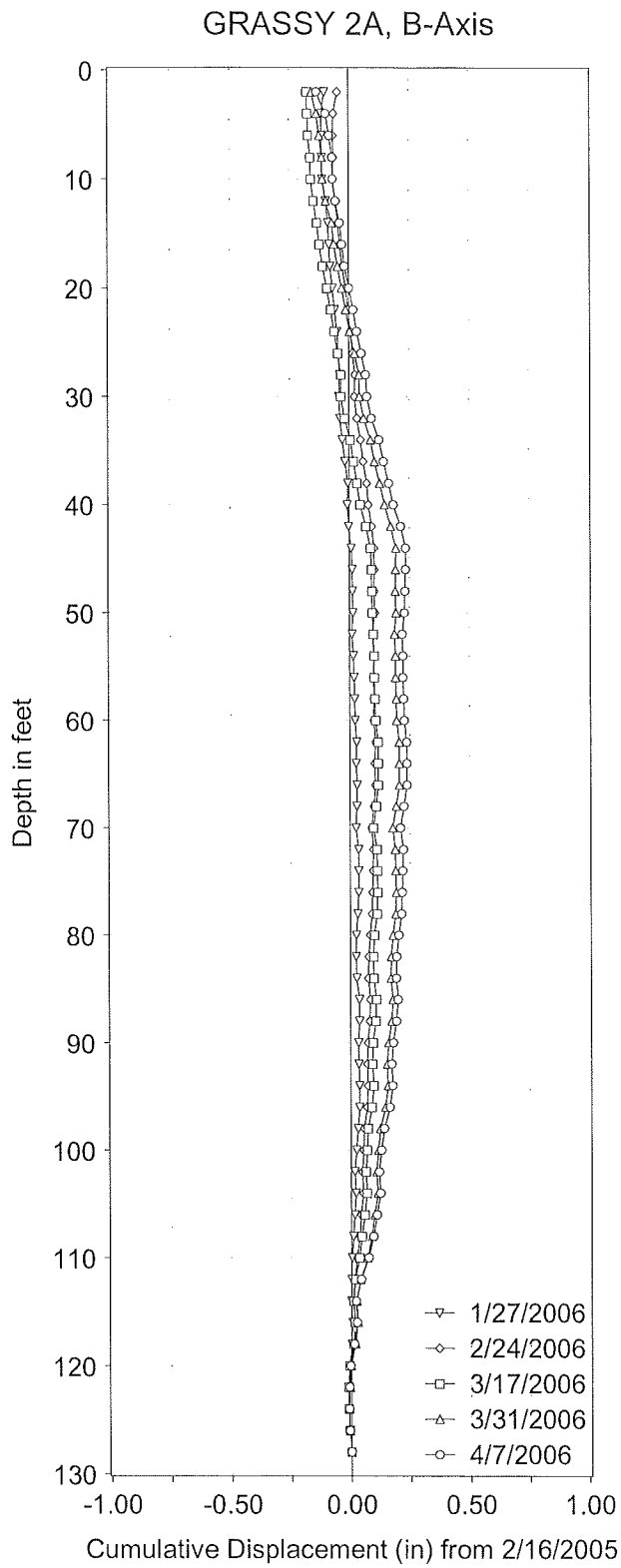
This week the water level in the reservoir has dropped from 17 to 34 inches below the spillway. James Sorensen with West Ridge Mine stated that the reservoir had dropped about 6 inches between Thursday and Friday. This drop is due to the increased discharge by the owners of the dam. Due to the increase in flow reported from the toe drain, a sample of the water was collected and examined for sediments. At the time of this sample the flow rate was 5 gpm. The sample was clear with the exception of a few sand grains which likely came from an older layer of sediment which has accumulated and extends up into the concrete pipe. Due to the increase in flow piezometer readings were also taken with no significant changes noted, as shown on the attached piezometer figures.

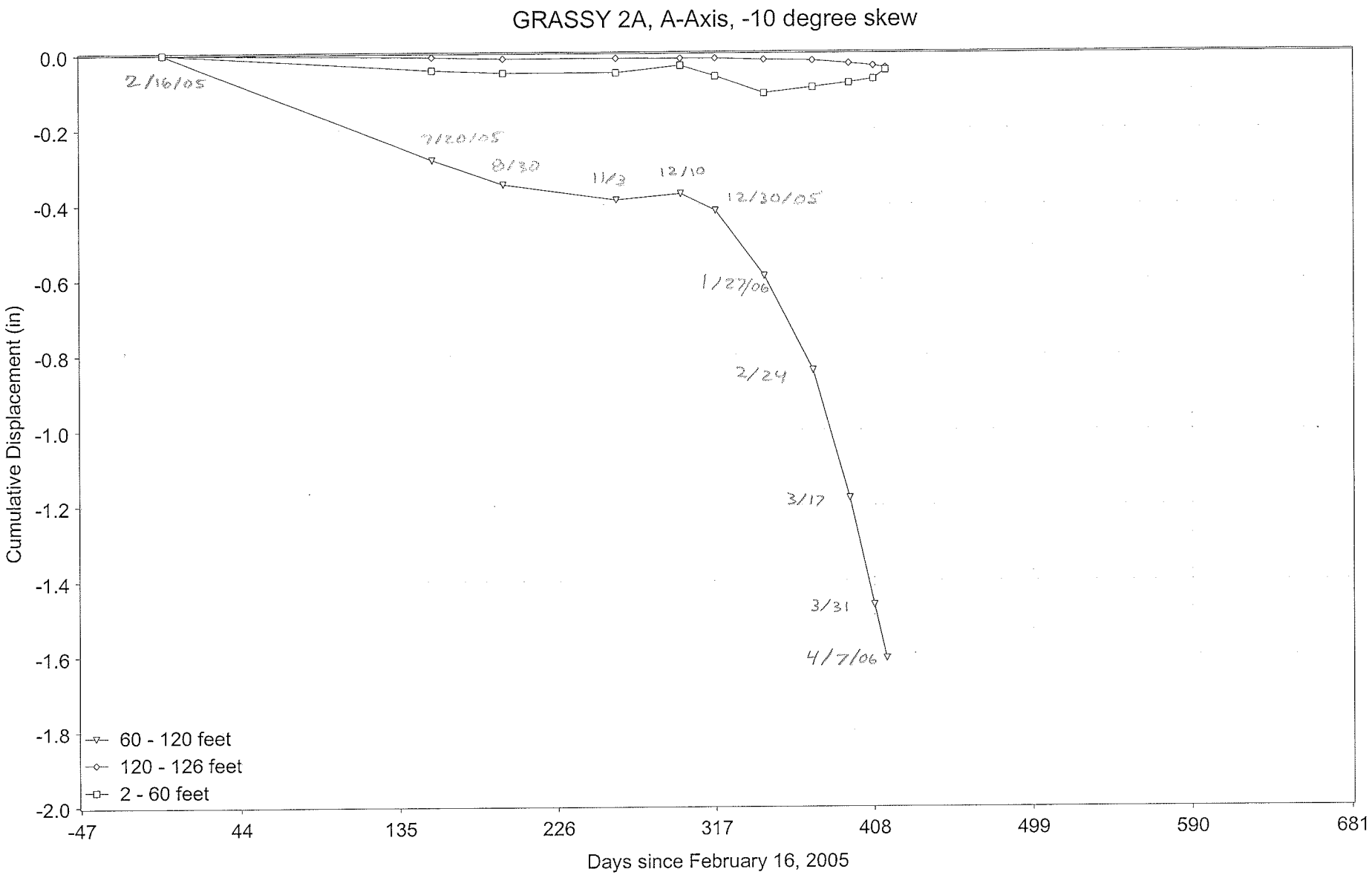
Inclinometers 2, 3, and 4 were also read. As shown on the inclinometer readings, I-2 and I-4 continue to show movement. As shown on the Time Displacement Curves the rate of movement has not increased since the March 17 readings. Inclinometer I-3 continues to show a similar type of movement as in the past.

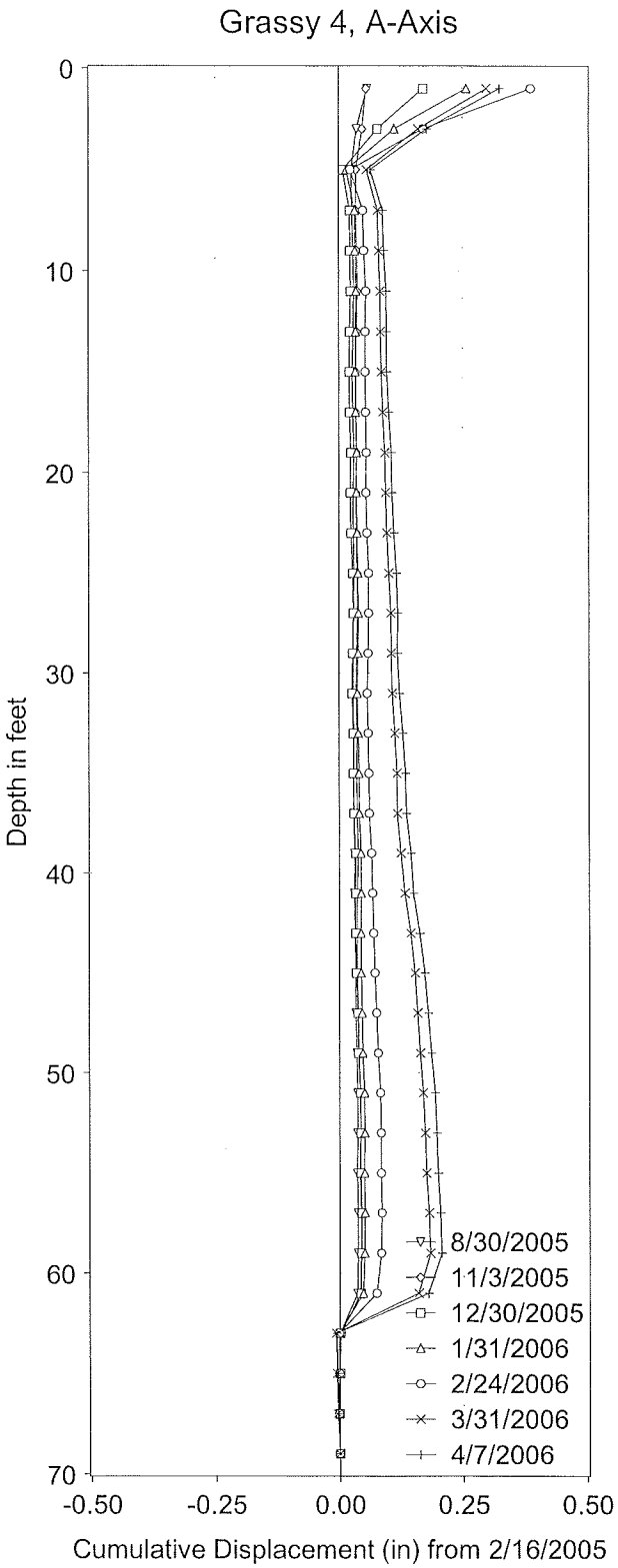
During this site visit the top of the dam was very wet. No cracks or signs of movement were noted on the dam or abutments above the dam. It should be noted that the cracks which had been noted on the east side of the dam in the past were now healed. The hillside and cut above inclinometer I-4 appeared to be very wet with several springs. Several mico-mudslides (1 to 24 inches wide, 1 to 4 inches deep) flowed down slope about 5 to 10 feet and coming to rest at the side of the road.

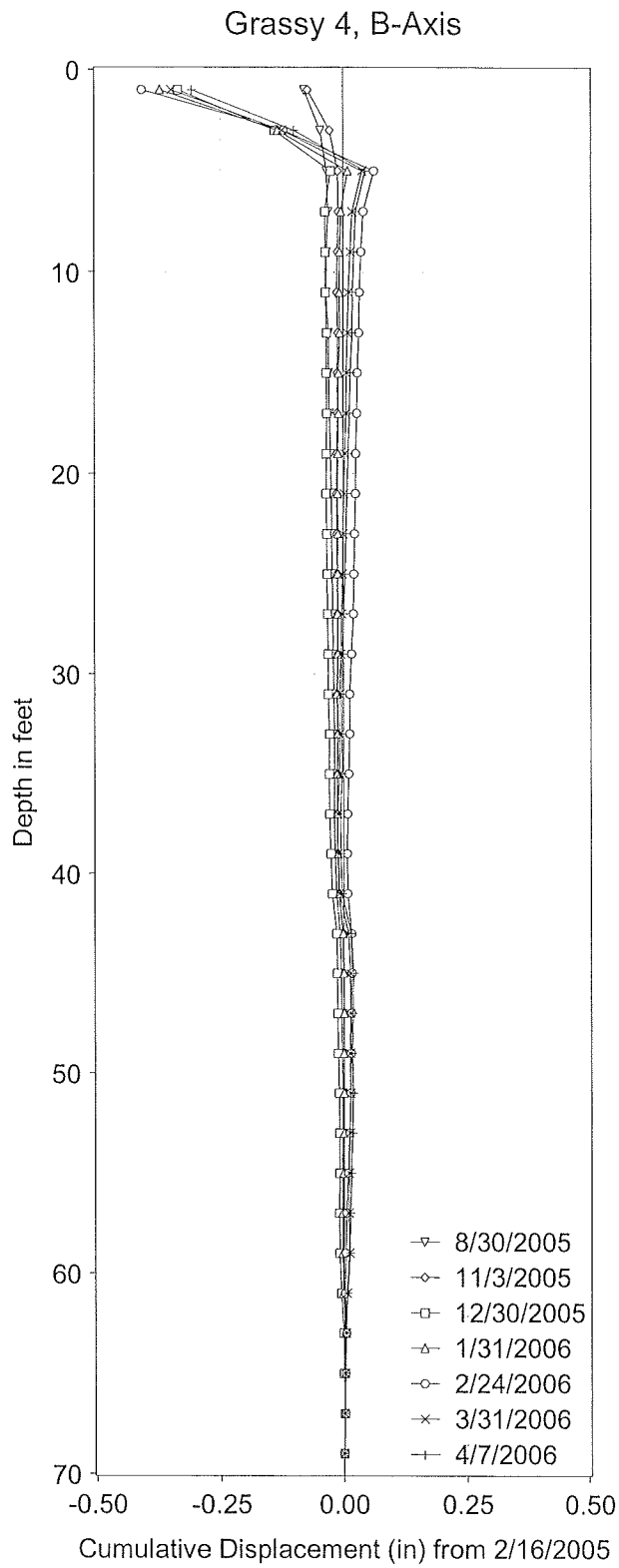
Michael Hansen

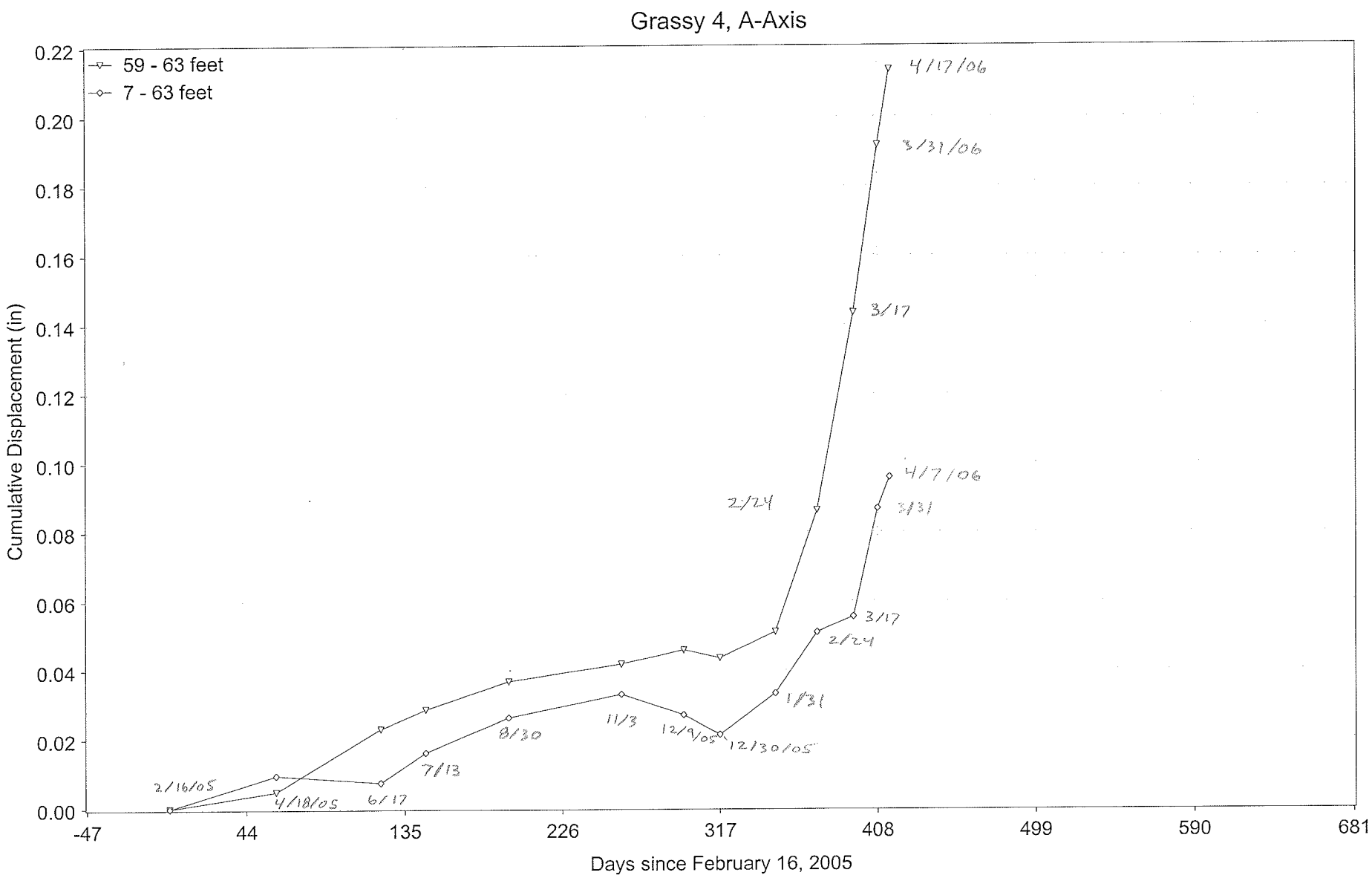

GRASSY 2A, A-Axis
Depth in feet
0
10
20
30
40
50
60
70
80
90
100
110
120
130
-2.00
-1.50
-1.00
-0.50
0.00
Cumulative Displacement (in) from 2/16/2005
1/27/2006
2/24/2006
3/17/2006
3/31/2006
4/7/2006

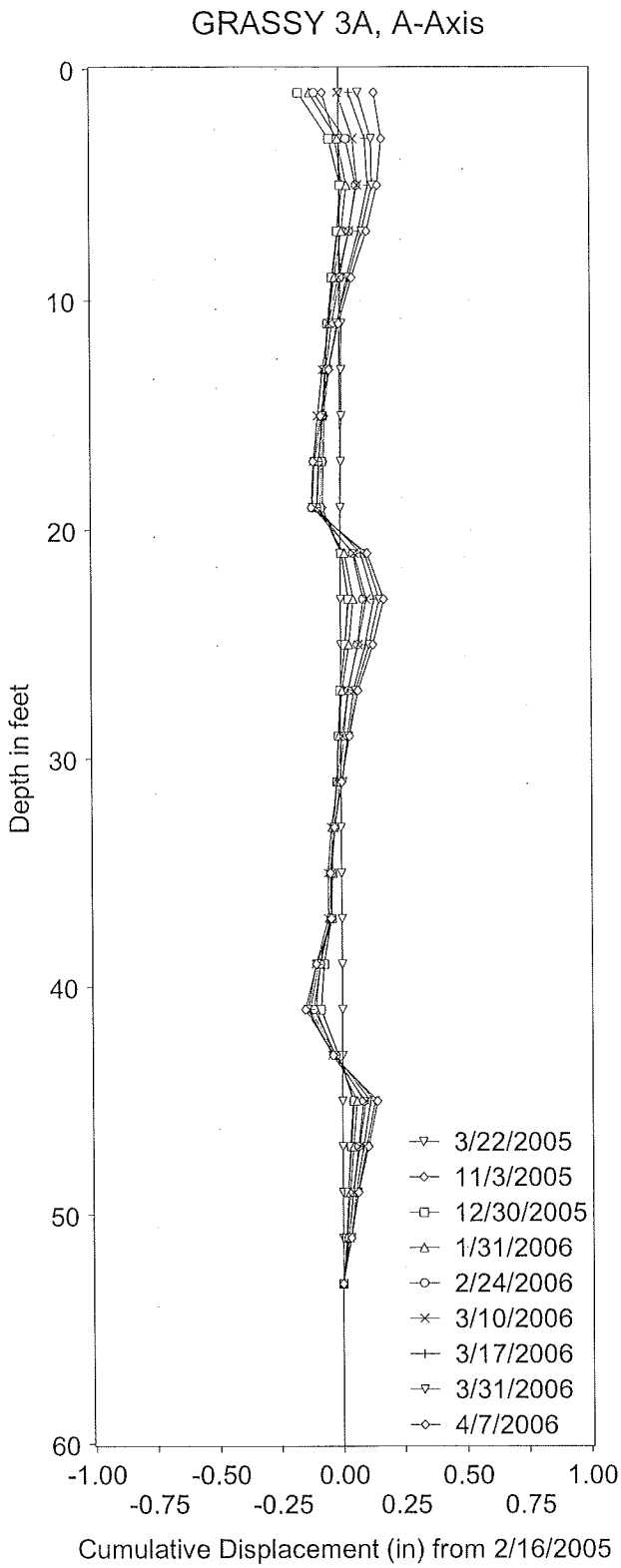

GRASSY 2A, B-Axis
Depth in feet
0
10
20
30
40
50
60
70
80
90
100
110
120
130
-1.00
-0.50
0.00
0.50
1.00
Cumulative Displacement (in) from 2/16/2005
1/27/2006
2/24/2006
3/17/2006
3/31/2006
4/7/2006

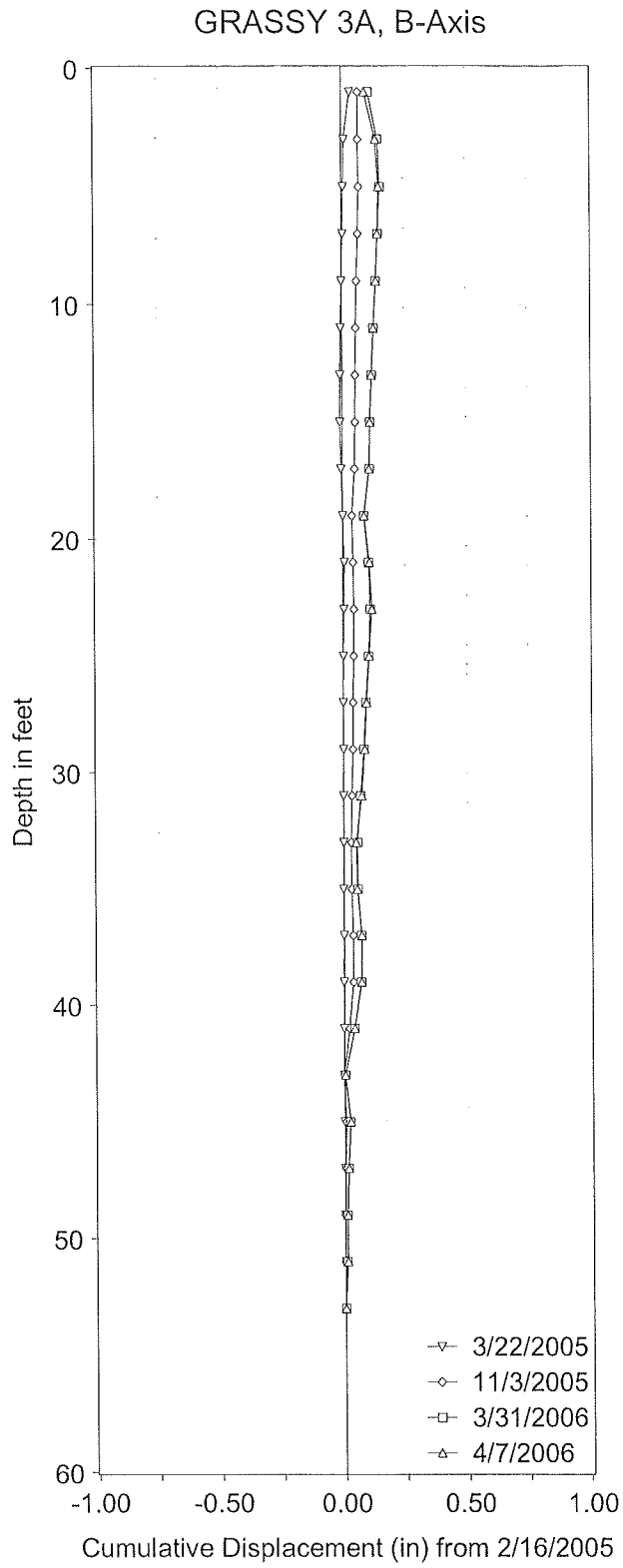

GRASSY 2A, A-Axis, -10 degree skew
Cumulative Displacement (in)
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
-1.4
-1.6
-1.8
-2.0
-47
44
135
226
317
408
499
590
681
Days since February 16, 2005
2/16/05
7/20/05
8/30
11/3
12/10
12/30/05
1/27/06
2/24
3/17
3/31
4/7/06
60 - 120 feet
120 - 126 feet
2 - 60 feet


Grassy 4, A-Axis
Depth in feet
0
10
20
30
40
50
60
70
-0.50
-0.25
0.00
0.25
0.50
Cumulative Displacement (in) from 2/16/2005
8/30/2005
11/3/2005
12/30/2005
1/31/2006
2/24/2006
3/31/2006
4/7/2006

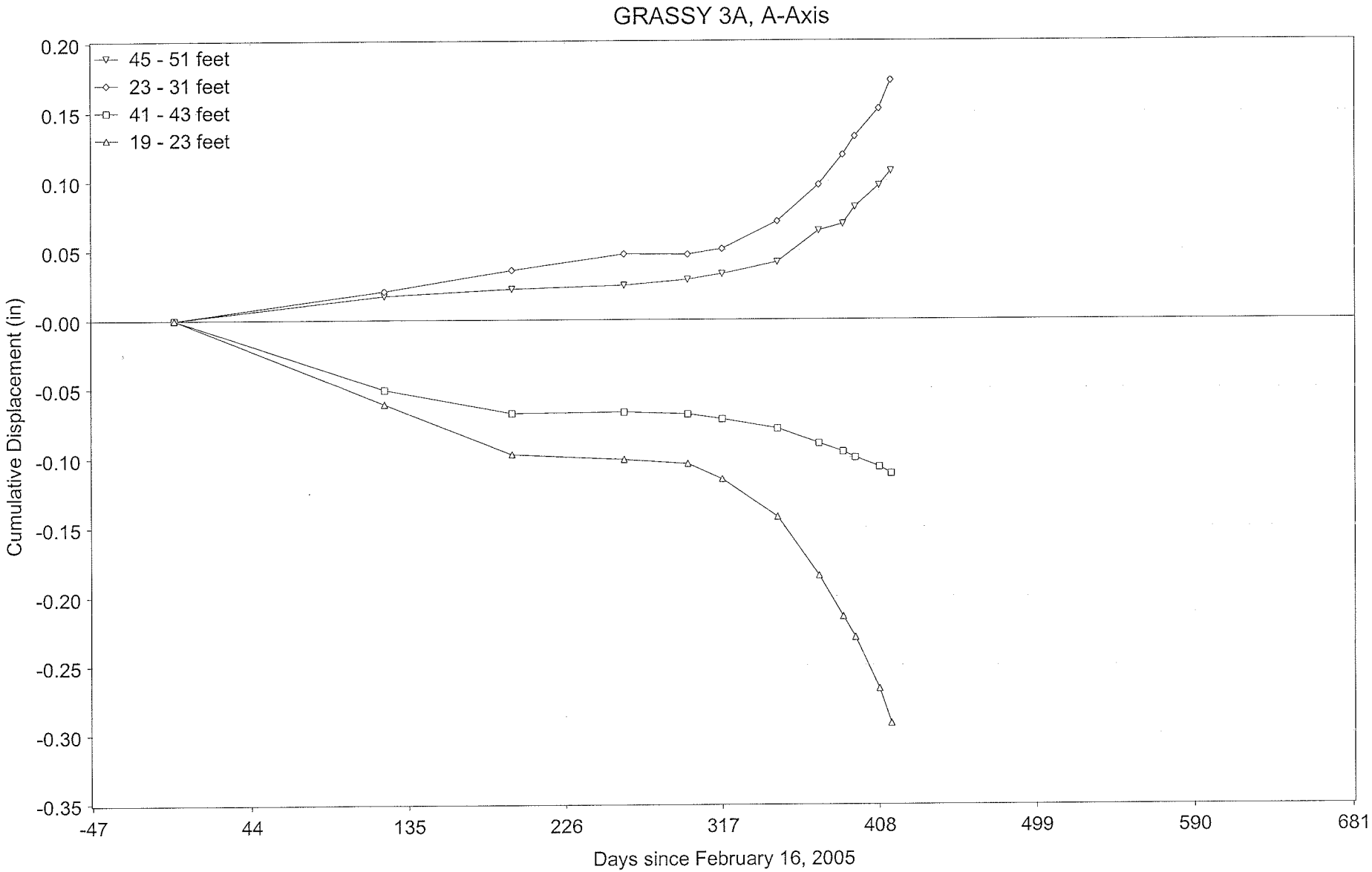

Grassy 4, B-Axis
Depth in feet
0
10
20
30
40
50
60
70
-0.50
-0.25
0.00
0.25
0.50
Cumulative Displacement (in) from 2/16/2005
8/30/2005
11/3/2005
12/30/2005
1/31/2006
2/24/2006
3/31/2006
4/7/2006

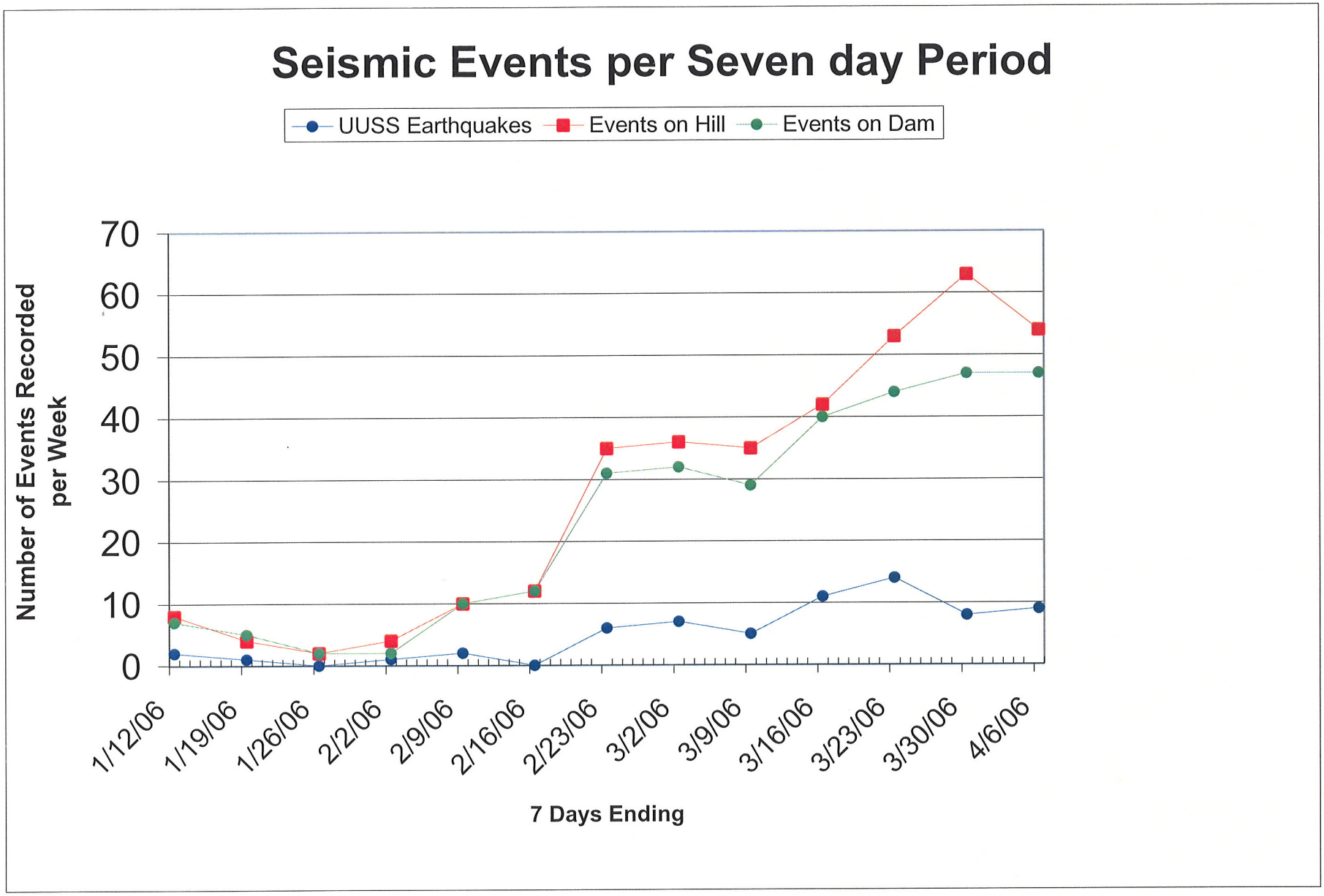

Grassy 4, A-Axis
59 - 63 feet
7 - 63 feet
Cumulative Displacement (in)
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-47
44
135
226
317
408
499
590
681
Days since February 16, 2005
4/17/06
3/31/06
3/17
2/24
4/7/06
3/31
3/17
2/24
1/31
12/30/05
12/9/05
11/3
8/30
7/13
6/17
4/18/05
2/16/05

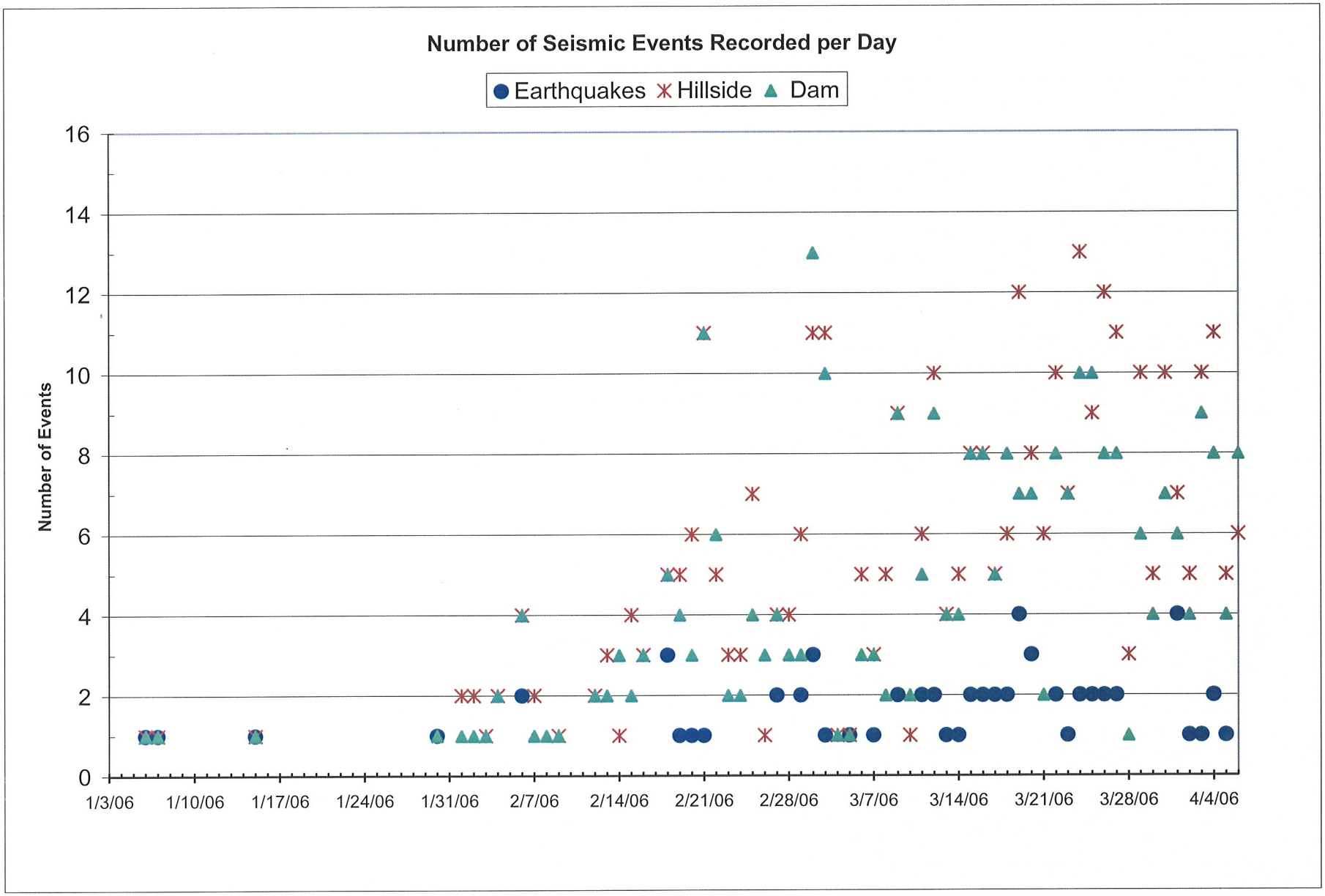


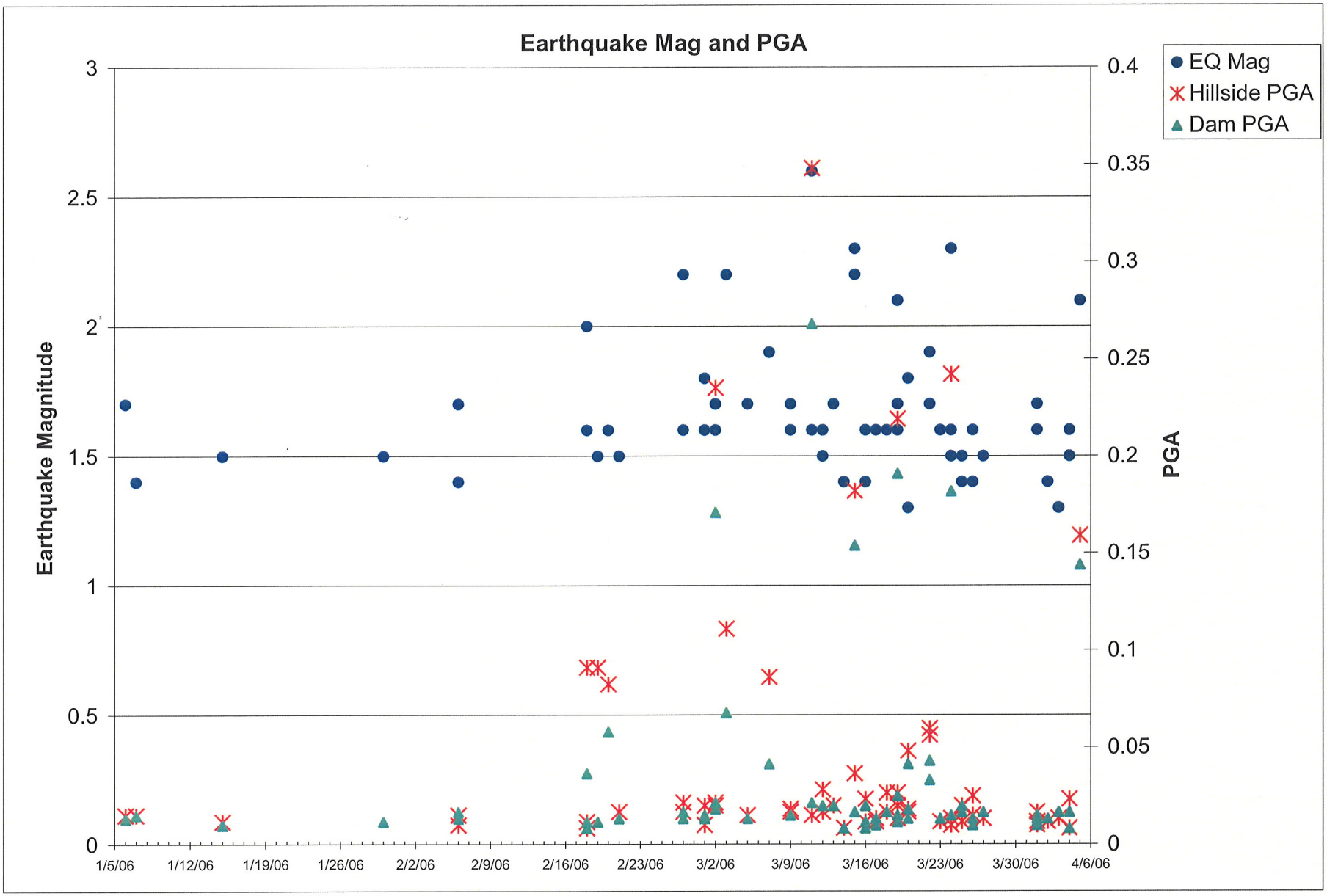


-30 degree skew


GRASSY 3A, A-Axis
45 - 51 feet
23 - 31 feet
41 - 43 feet
19 - 23 feet
Cumulative Displacement (in)
0.20
0.15
0.10
0.05
-0.00
-0.05
-0.10
-0.15
-0.20
-0.25
-0.30
-0.35
-47
44
135
226
317
408
499
590
681
Days since February 16, 2005

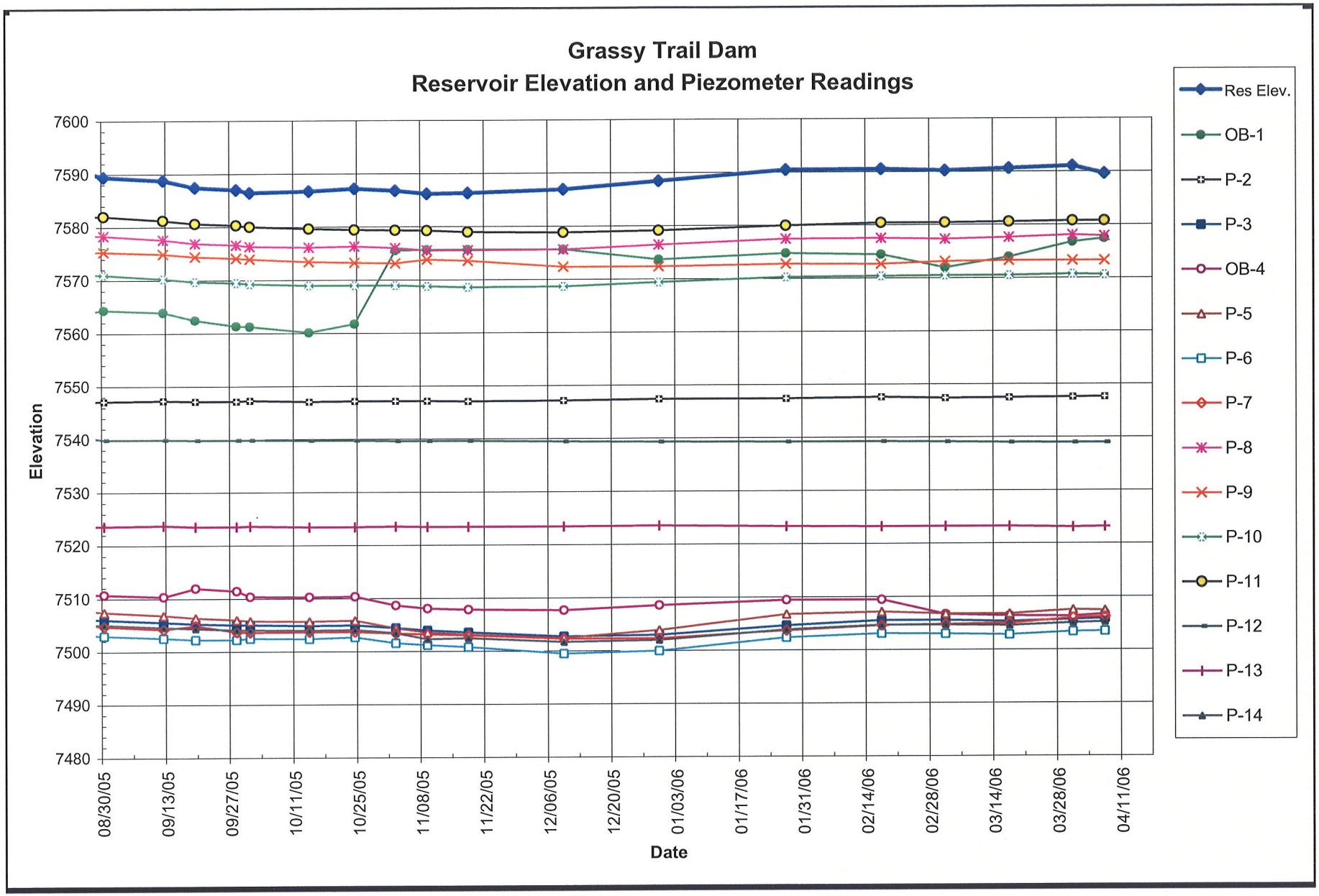

Seismic Events per Seven day Period
UUSS Earthquakes
Events on Hill
Events on Dam
Number of Events Recorded per Week
70
60
50
40
30
20
10
0
1/12/06
1/19/06
1/26/06
2/2/06
2/9/06
2/16/06
2/23/06
3/2/06
3/9/06
3/16/06
3/23/06
3/30/06
4/6/06
7 Days Ending


Number of Seismic Events Recorded per Day
Earthquakes
Hillside
Dam
Number of Events
0
2
4
6
8
10
12
14
16
1/3/06
1/10/06
1/17/06
1/24/06
1/31/06
2/7/06
2/14/06
2/21/06
2/28/06
3/7/06
3/14/06
3/21/06
3/28/06
4/4/06


Earthquake Mag and PGA
Earthquake Magnitude
PGA
EQ Mag
Hillside PGA
Dam PGA
3
2.5
2
1.5
1
0.5
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/5/06
1/12/06
1/19/06
1/26/06
2/2/06
2/9/06
2/16/06
2/23/06
3/2/06
3/9/06
3/16/06
3/23/06
3/30/06
4/6/06

GRASSY TRAIL DAM PIEZOMETER & OBSERVATION WELL READINGS

TAKE READINGS AT RIM ELEV.			05-2		79-4	98-3		05-4		79-3	05-3A	05-3		98-2	98-4	98-6
			5+62		5+15	4+14		~4+14		3+63	2+77	2+71				
Dam Crest Elev. (ft)		7600.0	PIEZ.	PIEZ.	O.W.	PIEZ.		PIEZ.		O.W.	PIEZ	PIEZ	PIEZ	PIEZ	PIEZ	PIEZ
Spillway Elev. (ft)		7592.5	8	9	1	2	3	13	14	4	10	11	12	5	6	7
Rim Elev. (ft)			7601.5		7601.8	7601.7		7558.9	7558.9	7601.7	7601.8	7601.7	7601.7	7528.8	7512.0	7519.5
Tip Elev. (ft)		(actual)	7554.5	7535.1	7491.8	7525.4	7491.0	7521.0	7499.5	7491.7	7550.8	7572.0	7529.5	7501.5	7479.5	7493.0
Piezometer Location:			CREST	CREST	CREST	CREST	CREST	D.S. SLOPE	D.S. SLOPE	CREST	CREST	CREST	CREST	TOE	TOE	TOE
			EMBANK.	FOUND.	EMBANK/FOUND	EMBANK.	FOUND.	EMBANK.	FOUND.	EMBANK/FOUND	EMBANK.	EMBANK.	FOUND.	FOUND.	FOUND.	FOUND.
Date	Initials	Reservoir Elevation	45.75' (47')	65' (66.4')	110'	76.2' (76.3')	110.7'	36.5' (37.9')	58.8' (59.4')	110'	49.5' (51')	28.5' (29.7')	84.0' (72.2')	27.3'	32.5'	26.5'
8/30/05	LW	-36"	23.2	26.2	37.4	54.5	95.6	35.2	53.8	90.9	30.8	19.6	61.7	21.3	9.0	14.6
9/12/05	LW	-44"	23.9	26.6	37.8	54.4	96.1	35.1	54.3	91.3	31.5	20.4	61.7	21.9	9.4	15.2
9/19/05	DC	-59"	24.6	27.1	39.3	54.5	96.4	35.3	54.5	89.7	32.1	21.0	61.8	22.4	9.7	14.5
9/28/05	LW	-65"	24.9	27.4	40.4	54.5	96.6	35.3	54.8	90.2	32.3	21.3	61.8	22.8	9.7	15.7
10/7/05	WD	-72"	25.2	27.6	40.5	54.4	96.6	35.2	54.8	91.3	32.5	21.6	61.8	23.0	9.5	15.8
10/14/05	LW	-69"	25.4	28.1	41.6	54.6	96.8	35.4	54.9	91.4	32.8	22.0	61.9	23.1	9.6	15.7
10/24/05	WD	-63"	25.2	28.3	40.0	54.5	96.7	35.4	54.8	91.3	32.8	22.2	61.8	22.9	9.3	15.7
11/2/05	WD	-68"	25.5	28.4	26.2	54.5	97.2	35.3	55.4	93.0	32.8	22.3	62.0	24.4	10.4	16.0
11/7/05	LW	-75"	26.0	27.7	26.7	54.5	97.7	35.4	56.6	93.6	33.0	22.4	62.0	25.2	10.8	16.2
11/18/05	WD	-73.5"	26.0	28.0	26.1	54.6	98.1	35.4	56.4	93.8	33.2	22.7	62.0	25.7	11.2	16.4
12/9/05	MKS	-66.5" ice	25.9	29.2	26.1	54.5	98.9	35.4	57.2	94.0	33.1	22.8	62.2	26.3	12.5	17.1
12/30/05	MKS	-48" ice	25.1	29.2	28.1	54.3	98.7	35.3	56.9	93.1	32.4	22.5	62.3	24.9	12.0	17.1
1/27/06	MKS	-24" ice	24.1	28.8	27.0	54.3	97.0	35.5	55.0	92.2	31.5	21.7	62.4	22.0	9.6	15.7
2/17/06	MNH	-23" ice	24.0	28.9	27.3	54.1	96.1	35.6	54.2	92.2	31.4	21.2	62.4	21.6	8.9	14.8
3/3/06	MNH	-27" ice	24.2	28.4	29.8	54.3	96.1	35.6	54.2	95.0	31.3	21.2	62.5	22.0	9.0	14.6
3/17/06	MNH	-22" ice	23.9	28.3	27.8	54.2	96.4	35.6	54.4	95.3	31.3	21.1	62.6	22.0	9.2	14.5
3/31/06	MNH	-17" ice	28.3	28.3	25.0	54.2	96.0	35.8	53.9	95.4	31.1	21.0	62.7	21.3	8.6	13.5
4/7/06	MNH	-34" ice	23.7	28.3	24.4	54.1	95.8	35.7	53.7	95.0	31.2	20.9	62.7	21.4	8.5	13.2



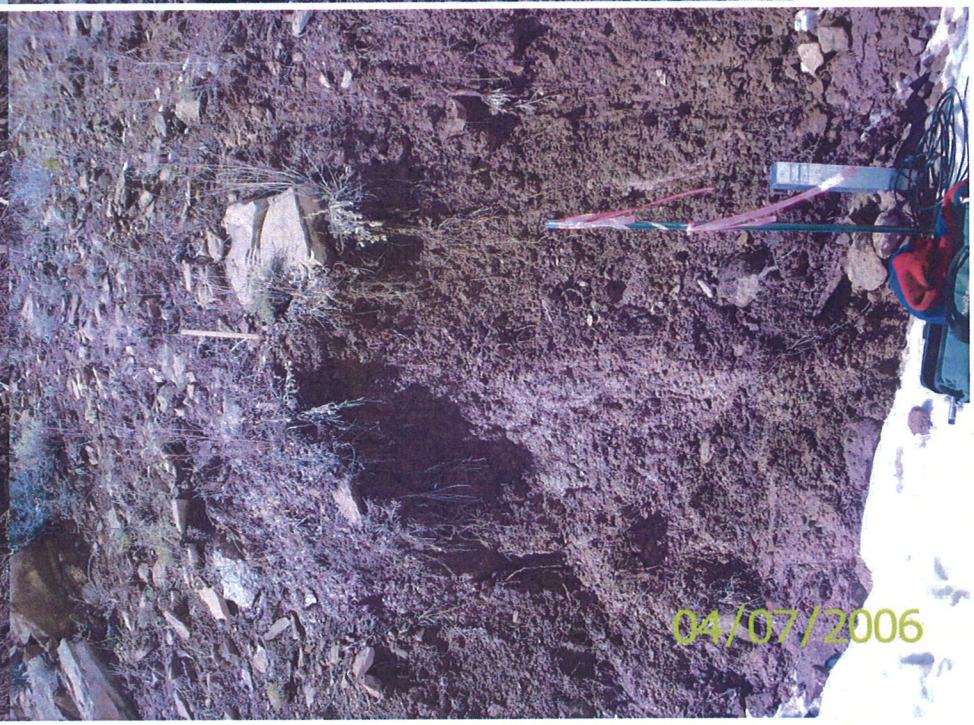
RB&G ENGINEERING INC.
Provo, Utah

Figure Reservoir Elevation and Piezometer Readings
August 30, 2005 to April 7, 2006

Grassy Trail Dam and Reservoir

Looking North I-4

mudslide



Looking SW

Grassy Trail Dam, Carbon County, Utah
2006 Hillside unit #9690 Dam #9689
Printed: April 8, 2006 (V 4.37 - 4.37) Event Report: Event List - c:\blast\event

Type	Serial No.	Date/Time	Tran Peak (mm/s)	Vert Peak (mm/s)	Long Peak (mm/s)	PVS1 (mm/s)	Trigger	Tran Accel (g)	Vert Accel (g)	Long Accel (g)	Description	Post Event Note first line
LOG	BE9689	Mar 31 /06 09:59:36	***	***	***	***	***	***	***	***	Start Monitoring	Start Monitoring
LOG	BE9690	Mar 31 /06 10:50:11	***	***	***	***	***	***	***	***	Start Monitoring	Start Monitoring
W	BE9690	Mar 31 /06 11:08:29	0.556	0.238	0.651	0.771	Long	0.00663	0.00663	0.00663	Hillside	
W	BE9690	Mar 31 /06 13:12:35	0.841	0.651	0.810	0.911	Vert	0.0116	0.00994	0.00829	Hillside	
W	BE9689	Mar 31 /06 13:12:36	0.365	0.524	1.14	1.19	Long	0.00663	0.00829	0.0166	Grassy Tr. Dam	
W	BE9690	Mar 31 /06 13:24:59	0.270	0.286	0.619	0.653	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Mar 31 /06 14:40:10	1.08	1.03	1.35	1.65	Vert	0.00994	0.00829	0.0116	Grassy Tr. Dam	
W	BE9690	Mar 31 /06 14:40:10	1.03	0.571	1.59	1.76	Long	0.00829	0.00829	0.00994	Hillside	
W	BE9689	Mar 31 /06 14:46:45	0.222	0.254	0.651	0.665	Long	0.00663	0.00663	0.0166	Grassy Tr. Dam	
W	BE9690	Mar 31 /06 18:34:50	0.286	0.413	0.603	0.701	Long	0.00663	0.00663	0.00663	Hillside	
W	BE9689	Mar 31 /06 23:06:11	2.11	2.02	2.70	3.20	Long	0.0133	0.0133	0.0182	Grassy Tr. Dam	
W	BE9690	Mar 31 /06 23:06:11	1.79	1.14	3.05	3.28	Vert	0.00994	0.00994	0.0182	Hillside	
W	BE9690	Mar 31 /06 23:22:34	0.317	0.254	0.619	0.663	Long	0.00663	0.00497	0.00663	Hillside	
W	BE9689	Apr 1 /06 08:20:21	1.24	0.921	1.43	1.78	Vert	0.00994	0.00663	0.00829	Grassy Tr. Dam	Earthquake Magnitude 1.6
W	BE9690	Apr 1 /06 08:20:21	0.794	0.556	1.56	1.62	Long	0.00829	0.00829	0.00994	Hillside	Earthquake Magnitude 1.6
W	BE9690	Apr 1 /06 12:35:22	1.00	0.429	1.49	1.71	Long	0.00829	0.00829	0.00994	Hillside	EQ mag 1.7
W	BE9689	Apr 1 /06 12:35:23	0.810	0.810	1.16	1.38	Vert	0.00829	0.00663	0.0133	Grassy Tr. Dam	EQ mag 1.7
W	BE9690	Apr 1 /06 17:32:37	0.825	0.540	1.33	1.49	Long	0.00829	0.00663	0.00994	Hillside	
W	BE9689	Apr 1 /06 17:32:38	0.730	0.778	1.11	1.25	Vert	0.00829	0.00663	0.00994	Grassy Tr. Dam	
W	BE9690	Apr 1 /06 17:34:24	0.429	0.317	0.714	0.778	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 1 /06 18:39:02	0.651	0.492	0.746	0.902	Long	0.00663	0.00663	0.00829	Grassy Tr. Dam	
W	BE9690	Apr 1 /06 18:39:02	0.524	0.333	0.825	0.886	Long	0.00663	0.00663	0.00663	Hillside	
W	BE9690	Apr 1 /06 20:48:05	0.778	0.651	1.79	1.79	Vert	0.00663	0.00663	0.0116	Hillside	EQ mag 1.7
W	BE9689	Apr 1 /06 20:48:06	1.29	0.873	1.27	1.63	Vert	0.0116	0.00829	0.00829	Grassy Tr. Dam	EQ mag 1.7
W	BE9690	Apr 1 /06 21:54:30	1.38	0.762	2.05	2.34	Vert	0.0116	0.00829	0.0116	Hillside	EQ mag 1.6
W	BE9689	Apr 1 /06 21:54:31	1.25	1.29	1.73	2.02	Vert	0.00994	0.00994	0.0149	Grassy Tr. Dam	EQ mag 1.6
W	BE9690	Apr 2 /06 07:34:44	0.317	0.286	0.603	0.652	Long	0.00663	0.00663	0.00663	Hillside	
W	BE9690	Apr 2 /06 11:48:36	0.714	0.460	1.30	1.40	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 2 /06 11:48:37	0.778	0.698	1.03	1.26	Vert	0.00829	0.00663	0.0182	Grassy Tr. Dam	
W	BE9689	Apr 2 /06 15:14:26	0.397	0.349	0.651	0.702	Long	0.00663	0.00663	0.0133	Grassy Tr. Dam	
W	BE9690	Apr 2 /06 15:14:26	0.397	0.254	0.667	0.769	Long	0.00497	0.00663	0.00829	Hillside	
W	BE9689	Apr 2 /06 18:37:37	0.667	0.556	0.937	1.14	Long	0.00829	0.00663	0.0133	Grassy Tr. Dam	
W	BE9690	Apr 2 /06 18:37:37	0.540	0.444	1.00	1.06	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9690	Apr 2 /06 21:37:46	1.24	0.778	1.89	2.15	Vert	0.00994	0.00829	0.0116	Hillside	EQ mag 1.4 (time change MDT)
W	BE9689	Apr 2 /06 21:37:47	1.27	1.25	1.71	2.01	Vert	0.00994	0.00994	0.0133	Grassy Tr. Dam	EQ mag 1.4
W	BE9690	Apr 3 /06 04:11:24	0.238	0.317	0.635	0.668	Long	0.00663	0.00497	0.00663	Hillside	
W	BE9690	Apr 3 /06 04:40:29	0.619	0.873	1.60	1.70	Vert	0.00663	0.00994	0.00994	Hillside	
W	BE9689	Apr 3 /06 04:40:31	0.746	0.508	0.794	1.12	Tran	0.00829	0.00663	0.00829	Grassy Tr. Dam	
W	BE9690	Apr 3 /06 05:05:22	0.746	1.03	1.92	2.07	Vert	0.00994	0.00994	0.0133	Hillside	
W	BE9689	Apr 3 /06 05:05:24	0.889	0.540	0.889	1.12	Long	0.00829	0.00663	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 3 /06 11:39:39	0.778	0.571	1.27	1.45	Long	0.00663	0.00829	0.00829	Hillside	
W	BE9689	Apr 3 /06 11:39:40	0.714	0.857	1.10	1.30	Vert	0.00663	0.00663	0.00994	Grassy Tr. Dam	
W	BE9690	Apr 3 /06 16:15:16	1.03	0.571	1.48	1.65	Long	0.0116	0.00829	0.00994	Hillside	
W	BE9689	Apr 3 /06 16:15:17	1.19	0.952	1.51	1.76	Vert	0.00994	0.00829	0.0182	Grassy Tr. Dam	
W	BE9690	Apr 3 /06 17:11:11	0.444	0.238	0.603	0.668	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 3 /06 17:11:12	0.333	0.302	0.603	0.644	Long	0.00663	0.00663	0.00663	Grassy Tr. Dam	
W	BE9690	Apr 3 /06 17:41:23	1.22	0.635	1.81	2.07	Vert	0.00994	0.00663	0.0133	Hillside	EQ mag 1.3
W	BE9689	Apr 3 /06 17:41:24	1.22	1.00	1.57	1.80	Vert	0.0116	0.00829	0.0166	Grassy Tr. Dam	EQ mag 1.3
W	BE9690	Apr 3 /06 20:00:49	1.05	0.683	1.68	1.85	Vert	0.00994	0.00829	0.0116	Hillside	
W	BE9689	Apr 3 /06 20:00:50	1.10	1.05	1.49	1.80	Vert	0.00829	0.00829	0.0133	Grassy Tr. Dam	
W	BE9690	Apr 3 /06 21:19:07	0.794	0.492	1.03	1.16	Long	0.00829	0.00663	0.00663	Hillside	
W	BE9689	Apr 3 /06 21:19:08	0.778	0.619	0.921	1.05	Vert	0.00829	0.00663	0.0116	Grassy Tr. Dam	
W	BE9690	Apr 3 /06 22:07:35	0.619	0.365	1.03	1.16	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 3 /06 22:07:36	0.730	0.619	0.937	1.14	Vert	0.00829	0.00663	0.0182	Grassy Tr. Dam	
W	BE9690	Apr 4 /06 08:07:43	0.905	0.603	1.29	1.44	Vert	0.00829	0.00829	0.00994	Hillside	
W	BE9689	Apr 4 /06 08:07:44	0.730	0.794	1.10	1.24	Vert	0.00663	0.00663	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 4 /06 10:53:58	0.619	0.365	0.857	0.962	Long	0.00663	0.00829	0.00663	Hillside	
W	BE9689	Apr 4 /06 10:54:00	0.683	0.492	0.810	1.00	Long	0.00663	0.00663	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 4 /06 11:33:54	3.13	0.984	2.32	3.14	Vert	0.0232	0.0116	0.0149	Hillside	EQ mag 1.5
W	BE9689	Apr 4 /06 11:33:56	1.65	1.27	1.90	2.07	Vert	0.0116	0.00994	0.0166	Grassy Tr. Dam	EQ mag 1.5
W	BE9690	Apr 4 /06 14:38:05	0.667	0.444	0.905	1.01	Tran	0.00829	0.00829	0.00829	Hillside	EQ mag 1.6
W	BE9689	Apr 4 /06 14:38:06	0.667	0.540	1.08	1.14	Long	0.00663	0.00663	0.00829	Grassy Tr. Dam	EQ mag 1.6
W	BE9690	Apr 4 /06 14:51:38	0.937	0.603	1.56	1.69	Vert	0.00829	0.00994	0.0133	Hillside	
W	BE9689	Apr 4 /06 14:51:40	1.06	0.952	1.44	1.72	Vert	0.00829	0.00829	0.0166	Grassy Tr. Dam	

W	BE9690	Apr 4 /06	17:00:33	0.524	0.270	0.730	0.819	Long	0.00663	0.00663	0.00829	Hillside		
W	BE9690	Apr 4 /06	19:18:47	0.460	0.317	0.667	0.727	Long	0.00663	0.00663	0.00663	Hillside		
W	BE9690	Apr 4 /06	19:19:10	0.476	0.349	0.698	0.775	Long	0.00663	0.00663	0.00829	Hillside		
W	BE9689	Apr 4 /06	19:19:12	0.540	0.429	0.667	0.823	Long	0.00829	0.00663	0.0166	Grassy Tr. Dam		
W	BE9690	Apr 4 /06	20:22:39	0.476	0.524	0.746	0.776	Long	0.00663	0.00829	0.00663	Hillside		
W	BE9689	Apr 4 /06	20:22:40	0.683	0.540	0.698	0.922	Long	0.00663	0.00663	0.0116	Grassy Tr. Dam		
W	BE9690	Apr 4 /06	20:47:20	0.683	0.460	1.08	1.22	Long	0.00829	0.00663	0.00829	Hillside		
W	BE9689	Apr 4 /06	20:47:21	0.762	0.667	1.02	1.23	Vert	0.00994	0.00663	0.0166	Grassy Tr. Dam		
W	BE9690	Apr 4 /06	21:52:40	0.286	0.333	0.746	0.795	Long	0.00663	0.00663	0.00829	Hillside		
W	BE9690	Apr 5 /06	07:08:39	17.1	5.98	9.32	17.5	Vert	0.159	0.0646	0.0597	Hillside	EQ mag 2.1,	PGA 0.159g
W	BE9689	Apr 5 /06	07:08:41	20.3	7.65	5.95	20.4	Long	0.144	0.0447	0.0365	Grassy Tr. Dam	EQ mag 2.1,	PGA 0.144g
W	BE9690	Apr 5 /06	13:37:15	0.778	0.476	1.05	1.17	Long	0.00663	0.00663	0.00829	Hillside		
W	BE9689	Apr 5 /06	13:37:16	0.952	0.683	1.22	1.42	Vert	0.00829	0.00829	0.0182	Grassy Tr. Dam		
W	BE9690	Apr 5 /06	13:38:51	0.349	0.381	0.667	0.684	Long	0.00663	0.00497	0.00829	Hillside		
W	BE9689	Apr 5 /06	13:38:55	0.603	0.349	0.524	0.748	Tran	0.00829	0.00663	0.0149	Grassy Tr. Dam		
W	BE9689	Apr 5 /06	14:02:56	0.286	0.302	0.619	0.662	Long	0.00663	0.00663	0.00829	Grassy Tr. Dam		
W	BE9690	Apr 5 /06	18:05:26	2.33	0.952	1.94	2.53	Vert	0.0182	0.0116	0.0133	Hillside		
W	BE9689	Apr 5 /06	18:05:28	1.89	1.24	1.94	2.19	Vert	0.0116	0.00994	0.0133	Grassy Tr. Dam		
W	BE9690	Apr 5 /06	21:36:21	0.524	0.778	0.952	1.07	Vert	0.00829	0.00829	0.00829	Hillside		
W	BE9690	Apr 6 /06	07:18:52	0.683	0.508	1.24	1.32	Long	0.00663	0.00663	0.00829	Hillside		
W	BE9689	Apr 6 /06	07:18:54	1.02	0.762	1.21	1.53	Vert	0.00829	0.00663	0.0116	Grassy Tr. Dam		
W	BE9690	Apr 6 /06	08:24:57	7.03	1.59	2.83	7.32	Vert	0.0547	0.0182	0.0265	Hillside		
W	BE9689	Apr 6 /06	08:24:59	5.97	2.98	1.79	6.10	Long	0.0497	0.0199	0.0149	Grassy Tr. Dam		
W	BE9689	Apr 6 /06	11:18:01	0.635	0.333	0.492	0.755	Tran	0.00829	0.00663	0.00829	Grassy Tr. Dam		
W	BE9690	Apr 6 /06	12:48:19	0.937	0.540	1.17	1.37	Long	0.00829	0.00663	0.00994	Hillside		
W	BE9689	Apr 6 /06	12:48:21	0.825	0.730	1.00	1.13	Vert	0.00829	0.00663	0.00994	Grassy Tr. Dam		
W	BE9690	Apr 6 /06	14:05:09	0.556	0.333	0.810	0.930	Long	0.00663	0.00663	0.00663	Hillside		
W	BE9689	Apr 6 /06	14:05:11	0.635	0.492	0.889	0.956	Long	0.00663	0.00663	0.0133	Grassy Tr. Dam		
W	BE9690	Apr 6 /06	17:01:33	0.508	0.365	0.746	0.840	Long	0.00497	0.00663	0.00663	Hillside		
W	BE9689	Apr 6 /06	17:01:35	0.571	0.508	0.730	0.906	Long	0.00663	0.00663	0.0133	Grassy Tr. Dam		
W	BE9689	Apr 6 /06	17:07:39	0.667	0.286	0.397	0.743	Tran	0.00829	0.00663	0.0182	Grassy Tr. Dam		
W	BE9690	Apr 6 /06	17:50:38	0.952	0.540	1.16	1.33	Long	0.00994	0.00663	0.00829	Hillside		
W	BE9689	Apr 6 /06	17:50:40	0.841	0.667	1.02	1.14	Vert	0.00829	0.00663	0.0166	Grassy Tr. Dam		
W	BE9690	Apr 7 /06	08:20:23	0.746	0.429	1.29	1.48	Long	0.00829	0.00663	0.00994	Hillside		
W	BE9689	Apr 7 /06	08:20:26	1.08	0.746	1.30	1.46	Vert	0.00829	0.00663	0.0166	Grassy Tr. Dam		
W	BE9689	Apr 7 /06	08:26:57	1.30	0.762	0.603	1.35	Tran	0.0878	0.0696	0.0348	Grassy Tr. Dam	Man made	
LOG	BE9689	Apr 7 /06	08:32:24	***	***	***	***	***	***	***	***	Keyboard Stop	No events recorded.	(Keyboard Exit)
LOG	BE9690	Apr 7 /06	09:17:46	***	***	***	***	***	***	***	***	Keyboard Stop	No events recorded.	(Keyboard Exit)