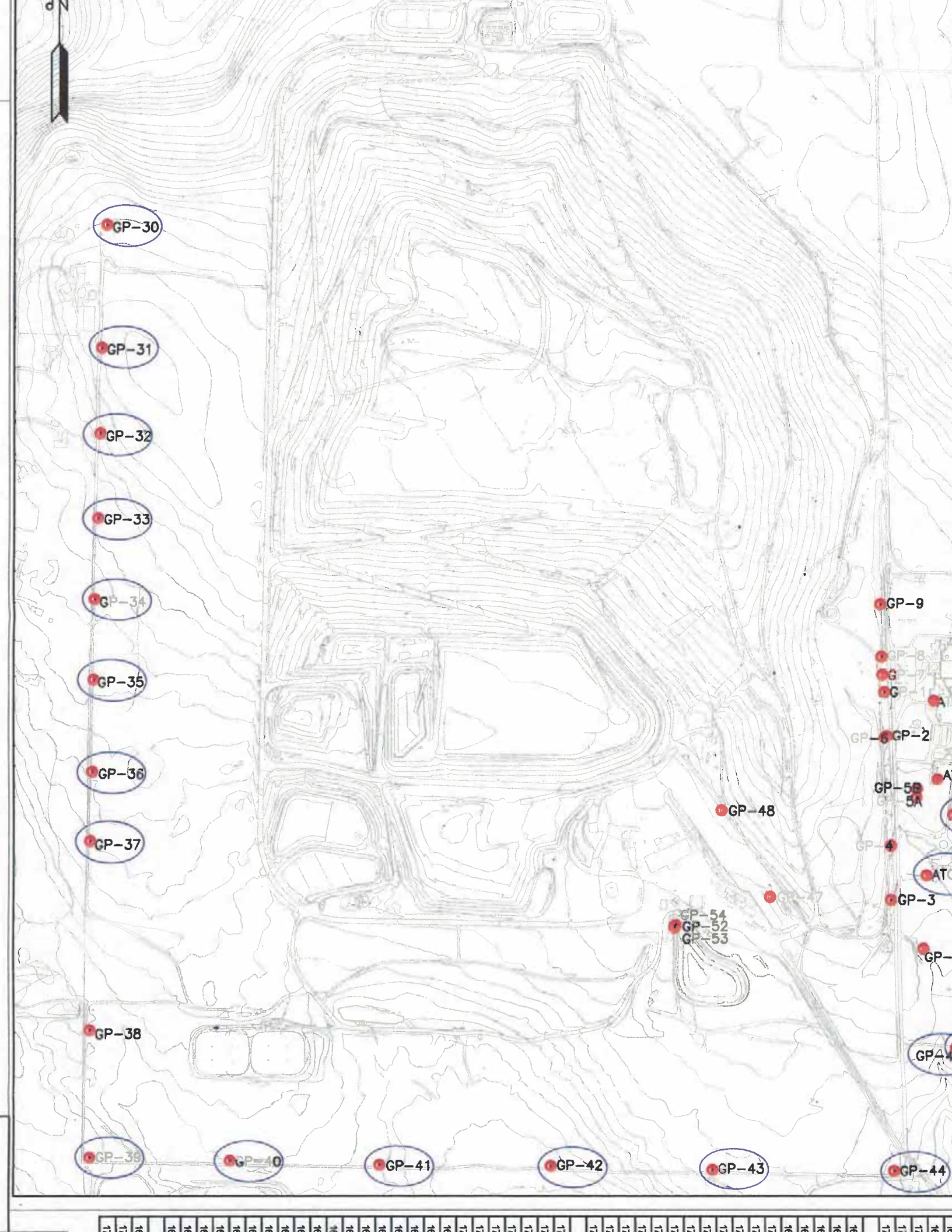


Attachment E

2010 Landfill Gas Probe Monitoring Program Information



King County Solid Waste Division
Environmental Data, Landfill Gas Monitoring
Data Collected March 2010
Cedar Hills Landfill -- Compliance Probe Testing Results

Sample Location	Sample Date/Time	CH4		CO2	Vol O2	Relative Pressure
		%Vol	%LEL	%Vol	%Vol	in. H2O
ATC-1 s	3/23/2010	0	0	0.0	20.8	0.04
ATC-1 d	3/23/2010	0	0	0.0	20.8	-0.02
ATC-6 s	3/23/2010	0	0	0.0	20.3	-0.12
ATC-6 d	3/23/2010	0	0	0.6	5.7	0.42
ATC-8 s	3/23/2010	0	0	1.8	17.1	0.05
ATC-8 d	3/23/2010	0	0	0.2	15.8	0.74
GP-11 a	3/23/2010	0	0	0.0	20.7	0.22
GP-11 b	3/23/2010	0	0	0.0	20.7	-0.09
GP-11 c	3/23/2010	0	0	0.0	20.7	-0.13
GP-11 d	3/23/2010	0	0	0.0	20.8	-0.21
GP-12 a	3/23/2010	0	0	0.0	20.5	-0.01
GP-12 b	3/23/2010	0	0	0.0	20.7	-0.01
GP-12 c	3/23/2010	0	0	0.0	20.5	-0.09
GP-12 d	3/23/2010	0	0	0.5	12.5	0.00
GP-13 a	3/23/2010	0	0	0.0	20.8	-0.02
GP-13 b	3/23/2010	0	0	0.0	20.9	-0.01
GP-13 c	3/23/2010	0	0	0.0	13.8	0.00
GP-13 d	3/23/2010	0	0	0.0	20.9	-3.20
GP-14 a	3/23/2010	0	0	0.0	19.6	2.73
GP-14 b	3/23/2010	0	0	0.0	20.5	-2.76
GP-15 a	3/23/2010	0	0	0.1	20.3	-0.76
GP-15 b	3/23/2010	0	0	0.0	20.3	0.03
GP-15 c	3/23/2010	0	0	1.6	11.1	3.27
GP-16 a	3/23/2010	0	0	0.6	9.7	0.07
GP-16 b	3/23/2010	0	0	0.0	20.0	0.74
GP-16 c	3/23/2010	0	0	0.0	20.4	3.78
GP-17 a	3/30/2010	0	0	0.0	20.6	-1.07
GP-17 c	3/30/2010	0	0	0.0	20.4	2.57
GP-18 a	3/30/2010	0	0	0.7	18.4	4.71
GP-17 b	3/30/2010	0	0	0.8	16.4	-0.07
GP-18 b	3/30/2010	0	0	0.3	10.6	-0.11
GP-18 c	3/30/2010	1.1	22	1.2	2.3	4.59
GP-19 a	3/30/2010	0	0	0.0	20.5	-0.03
GP-19 b	3/30/2010	0	0	0.7	15.0	-0.10
GP-19 c	3/30/2010	0	0	0.0	20.0	-0.63
GP-20 a	3/30/2010	0	0	0.0	20.7	-0.75
GP-20 b	3/30/2010	0	0	0.2	14.1	0.00
GP-20 c	3/30/2010	0	0	0.0	19.3	0.01
GP-21 a	3/30/2010	0	0	0.2	20.5	2.55
GP-21 b	3/30/2010	0	0	0.1	16.2	-0.02
GP-21 c	3/31/2010	0	0	0.1	19.9	-4.28
GP-22 a	3/31/2010	0	0	0.0	20.6	-0.85
GP-22 b	3/31/2010	0	0	0.0	20.6	3.24
GP-22 c	3/31/2010	0	0	0.0	20.6	-26.12
GP-23 a	3/30/2010	0	0	0.0	20.6	-0.09
GP-23 b	3/30/2010	0	0	0.0	20.7	-1.05
GP-23 c	3/30/2010	0	0	0.0	20.6	-0.14
GP-24 a	3/30/2010	0	0	3.9	9.4	-0.06

% LEL = Percent Lower Explosive Limit
Engineer, B. Keating

King County Solid Waste Division
Environmental Data, Landfill Gas Monitoring
Data Collected March 2010
Cedar Hills Landfill -- Compliance Probe Testing Results

Sample Location	Sample Date/Time	CH4		CO2	Vol O2	Relative Pressure
		%Vol	%LEL	%Vol	%Vol	in. H2O
GP-24 b	3/30/2010	0	0	2.5	16.8	-1.05
GP-25	3/30/2010	0	0	2.4	15.6	-0.06
GP-26	3/30/2010	0	0	1.2	17.6	-0.6
GP-27	3/30/2010	0	0	6.9	8.2	-0.09
GP-29 a	3/30/2010	0	0	0.2	20.7	0.12
GP-29 b	3/30/2010	0	0	0.6	20.5	0.25
GP-30 a	3/25/2010	0	0	2.4	18.3	0.34
GP-30 b	3/25/2010	0	0	2.1	4.6	0.22
GP-31 a	3/25/2010	0	0	1.2	8.1	-2.89
GP-31 b	3/25/2010	0	0	0	15.6	0.41
GP-31 c	3/25/2010	0	0	0	20.6	-0.1
GP-32 a	3/25/2010	0	0	0.5	20.3	-0.1
GP-32 b	3/25/2010	0	0	0	20.9	-0.09
GP-32 c	3/25/2010	0	0	0.1	20.6	-0.09
GP-33 a	3/25/2010	0	0	0.2	19.4	-0.1
GP-33 b	3/25/2010	0	0	0	20.1	-0.09
GP-33 c	3/25/2010	0.4	0	2.9	11	0.19
GP-34 a	3/25/2010	0	0	0	20.9	-0.01
GP-34 b	3/25/2010	0	0	0.1	13.6	0.1
GP-34 c	3/25/2010	0	0	0	18.1	3.09
GP-35 a	3/25/2010	0	0	0	20.6	-0.02
GP-35 b	3/25/2010	0	0	0	20.7	-0.03
GP-35 c	3/25/2010	0	0	0	19.9	0.03
GP-36 a	3/25/2010	0	0	0	18.6	2.65
GP-36 b	3/25/2010	0	0	0	18.7	-2.27
GP-36 c	3/25/2010	0	0	0.2	8.3	4.57
GP-37 a	3/25/2010	0	0	0.2	8.6	-0.48
GP-37 b	3/25/2010	0	0	0	20.3	0.62
GP-37 c	3/25/2010	0	0	0.7	2.8	4.25
GP-39	3/31/2010	0	0	1.2	18.1	0.12
GP-40	3/31/2010	0	0	0	17.5	0.15
GP-41 a	3/31/2010	0	0	0	20.7	-0.02
GP-41 b	3/31/2010	0	0	0	20.7	-0.03
GP-41 c	3/31/2010	0	0	0	20.8	-0.04
GP-42 a	3/31/2010	0	0	0	20.8	0
GP-42 b	3/31/2010	0	0	0	20.5	-0.75
GP-43 a	3/31/2010	0	0	0	20.7	0.02
GP-43 b	3/31/2010	0	0	0	20.8	-0.03
GP-43 c	3/31/2010	0	0	0.1	13.3	-0.01
GP-44 a	3/31/2010	0	0	0	20.7	0.01
GP-44 b	3/31/2010	0	0	0.1	19.5	-0.42
GP-44 c	3/31/2010	0	0	0	20.8	-0.01
GP-45 a	3/23/2010	0	0	0	20.7	0.21
GP-45 b	3/23/2010	0	0	0	19.3	0.06
GP-45 c	3/23/2010	0	0	0	20.7	0

% LEL = Percent Lower Explosive Limit
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King County Solid Waste Division
Environmental Data, Landfill Gas Monitoring
Data Collected June 2010
Cedar Hills Landfill -- Compliance Probe Testing Results

Sample Location	Sample Date/Time	CH4		CO2	Vol O2	Relative Pressure
		%Vol	%LEL	%Vol	%Vol	in. H2O
ATC-1 s	6/24/2010	0	0	0	19.9	-0.36
ATC-1 d	6/24/2010	0	0	0	20.6	-0.19
ATC-6 s	6/24/2010	0	0	0	20.5	-0.30
ATC-6 d	6/24/2010	0	0	0.8	2.9	0.25
ATC-8 s	6/24/2010	0	0	3.4	14.3	-0.38
ATC-8 d	6/24/2010	0	0	3.4	14.3	-0.38
GP-11 a	6/24/2010	0	0	0	20.2	-0.25
GP-11 b	6/24/2010	0	0	0	19.3	0.00
GP-11 c	6/24/2010	0	0	0	15.5	-0.03
GP-11 d	6/24/2010	0	0	0	20.2	-0.35
GP-12 a	6/24/2010	0	0	0	20.4	-0.03
GP-12 b	6/24/2010	0	0	0	20	-0.38
GP-12 c	6/24/2010	0	0	0	18.6	-10.63
GP-12 d	6/24/2010	0	0	0	19.5	-0.03
GP-13 a	6/24/2010	0	0	0	20.3	-0.02
GP-13 b	6/24/2010	0	0	0	19.9	-0.04
GP-13 c	6/24/2010	0	0	0	15.4	-0.07
GP-13 d	6/24/2010	0	0	0.2	14.3	-0.09
GP-14 a	6/24/2010	0	0	0	19.5	0.31
GP-14 b	6/24/2010	0	0	1.3	16.2	-0.33
GP-15 a	6/24/2010	0	0	0	20.5	-0.10
GP-15 b	6/24/2010	0	0	0	20.1	0.24
GP-15 c	6/24/2010	0	0	0	20.4	-0.10
GP-16 a	6/24/2010	0	0	0	20.5	-0.01
GP-16 b	6/24/2010	0	0	0.1	20.6	-0.06
GP-16 c	6/28/2010	0	0	1.6	13.6	1.15
GP-17 a	6/24/2010	1.4	28	0.2	20	-10.50
GP-17 b	6/24/2010	0.2	4	1.1	16.2	-0.38
GP-17 c	6/24/2010	0	0	0	20.3	0.52
GP-18 a	6/24/2010	0.5	10	0.2	19.6	-1.91
GP-18 b	6/28/2010	0	0	0.3	18	0.43
GP-18 c	6/24/2010	0	0	0	20.1	-12.94
GP-19 a	6/24/2010	0	0	0	20.4	-0.03
GP-19 b	6/24/2010	0	0	0.6	14.9	-0.16
GP-19 c	6/28/2010	0	0	0	20.3	0.09
GP-20 a	6/24/2010	0	0	0	20.7	-0.02
GP-20 b	6/24/2010	0	0	0	17.2	-0.45
GP-20 c	6/28/2010	0	0	0	6.5	0.02
GP-21 a	6/24/2010	0	0	0	20.3	-1.80
GP-21 b	6/24/2010	0	0	0	9.8	0.24
GP-21 c	6/24/2010	0	0	0	20.9	-0.49
GP-22 a	6/28/2010	0	0	0	20.7	0.02
GP-22 b	6/28/2010	0	0	0	20.6	0.00
GP-22 c	6/24/2010	0.1	2	0	20.1	-8.04
GP-23 a	6/24/2010	0	0	0	20.7	-0.47
GP-23 b	6/24/2010	0	0	0	20	-0.32
GP-23 c	6/24/2010	0	0	0	20.6	-0.11
GP-24 a	6/24/2010	0	0	5.6	7.8	-0.37

% LEL = Percent Lower Explosive Limit
Engineer, B. Keating

King County Solid Waste Division
Environmental Data, Landfill Gas Monitoring
Data Collected June 2010
Cedar Hills Landfill -- Compliance Probe Testing Results

Sample Location	Sample Date/Time	CH4		CO2	Vol O2	Relative Pressure
		%Vol	%LEL	%Vol	%Vol	in. H2O
GP-24 b	6/24/2010	0	0	0.9	18.5	-0.11
GP-25	6/24/2010	0	0	4.4	12.5	-0.3
GP-26	6/24/2010	0	0	1.5	17.4	-0.29
GP-27	6/24/2010	0	0	9.7	4.5	-0.05
GP-29 a	6/24/2010	0	0	0.4	19.6	-0.45
GP-29 b	6/24/2010	0	0	0.5	20.2	-0.1
GP-30 a	6/24/2010	0	0	3	17.6	-0.2
GP-30 b	6/24/2010	0	0	0.9	11	0.29
GP-31 a	6/28/2010	0	0	0	20.8	-0.17
GP-31 b	6/28/2010	0	0	0.2	15.2	0.51
GP-31 c	6/28/2010	0	0	0.2	20	0.46
GP-32 a	6/28/2010	0	0	0	20.7	0
GP-32 b	6/28/2010	0	0	0.1	20.5	0
GP-32 c	6/28/2010	0	0	0	20.6	0
GP-33 a	6/24/2010	0	0	0	19.8	-1.75
GP-33 b	6/24/2010	0	0	0	20.6	-0.11
GP-33 c	6/24/2010	0	0	2.5	14.5	-0.03
GP-34 a	6/28/2010	0	0	0	20.7	-2.46
GP-34 b	6/28/2010	0	0	0.1	18.6	0.02
GP-34 c	6/28/2010	0	0	0	18.1	0.26
GP-35 a	6/28/2010	0	0	0	20.4	0
GP-35 b	6/28/2010	0	0	0	20.6	0.02
GP-35 c	6/28/2010	0	0	0	20.4	0.01
GP-36 a	6/28/2010	0	0	0	15.1	0.61
GP-36 b	6/28/2010	0	0	0	19.7	0.01
GP-36 c	6/28/2010	0	0	0.2	8.1	1.54
GP-37 a	6/28/2010	0	0	0	16	0.01
GP-37 b	6/28/2010	0	0	0	20.2	0.05
GP-37 c	6/28/2010	0	0	0.2	16.1	0.01
GP-39	6/28/2010	0	0	2.5	16.9	-0.06
GP-40	6/28/2010	0	0	0	15.6	0
GP-41 a	6/28/2010	0	0	0	20.7	0.08
GP-41 b	6/28/2010	0	0	0.1	20.6	0
GP-41 c	6/28/2010	0	0	0	20.7	0.01
GP-42 a	6/28/2010	0	0	0	20.7	-0.01
GP-42 b	6/28/2010	0	0	0.5	17.1	0.37
GP-43 a	6/28/2010	0	0	0	20.4	-0.04
GP-43 b	6/28/2010	0	0	0	20.5	-0.01
GP-43 c	6/28/2010	0	0	0.1	18.4	0.07
GP-44 a	6/28/2010	0	0	0	20.6	0.04
GP-44 b	6/28/2010	0	0	0.5	14.9	0.03
GP-44 c	6/28/2010	0	0	0	20.5	0.06
GP-45 a	6/24/2010	0	0	0	20.8	-0.08
GP-45 b	6/24/2010	0	0	0	17.6	0.27
GP-45 c	6/24/2010	0	0	0	20.3	0.29

% LEL = Percent Lower Explosive Limit
Engineer, B. Keating

King County Solid Waste Division
Environmental Data, Landfill Gas Monitoring
Data Collected July 2010
Cedar Hills Landfill -- Compliance Probe Testing Results

Sample Location	Sample Date/Time	CH4		CO2	Vol O2	Relative Pressure
		%Vol	%LEL	%Vol	%Vol	in. H2O
ATC-1D	7/23/10 14:06	0		0	19.7	0.00
ATC-1S	7/23/10 14:04	0		0	19.5	0.00
ATC-6D	7/23/10 14:51	0		0.4	12.2	0.02
ATC-6S	7/23/10 14:49	0		1.8	17.7	0.01
ATC-8D	7/23/10 15:02	0		0.2	19	0.01
ATC-8S	7/23/10 15:00	0		3.1	16.5	0.00
GP-11A	7/23/10 13:55	0		0	19.5	0.08
GP-11B	7/23/10 13:57	0		0	19.5	-0.45
GP-11C	7/23/10 13:58	0		0	19.5	-0.27
GP-11D	7/23/10 14:00	0		0	19.4	0.12
GP-12A	7/23/10 14:13	0		0	19.9	0.00
GP-12B	7/23/10 14:15	0		0	19.9	0.00
GP-12C	7/23/10 14:17	0		0.1	18.7	0.07
GP-12D	7/23/10 14:18	0		0	19.7	-0.38
GP-13A	7/23/10 14:22	0		2.9	14.3	0.00
GP-13B	7/23/10 14:24	0		0	19.4	-0.01
GP-13C	7/23/10 14:26	0		0	19.9	0
GP-13D	7/23/10 14:27	0		0	19.9	-1.28
GP-14A	7/23/10 14:33	0		0	19.8	-1.14
GP-14B	7/23/10 14:35	0		0	20.1	-1.19
GP-15A	7/23/10 14:42	0		0.3	19.6	-0.04
GP-15C	7/23/10 14:44	0		0.8	15	-0.27
GP-15D	7/23/10 14:46	0		0	19.9	-4.9
GP-16A	7/23/10 14:54	0		3.9	14.2	0
GP-16B	7/23/10 14:56	0		0.1	19.4	-0.73
GP-16C	7/23/10 14:57	0		0	20.3	-0.91
GP-17A	7/23/10 9:41	0		0	20.4	-0.06
GP-17B	7/23/10 9:43	0		0.8	17.4	0
GP-17C	7/23/10 9:44	0		0	20.6	-1.37
GP-18A	7/23/10 9:48	0		1.6	14.7	-9.22
GP-18B	7/23/10 9:49	0		0.3	11.9	0
GP-18C	7/23/10 9:51	0		0.8	7.5	-1.49
GP-19A	7/23/10 9:53	0		0	20.5	-0.01
GP-19B	7/23/10 9:55	0		0.6	15.2	0
GP-19C	7/23/10 9:56	0		0	20.5	-0.08
GP-20A	7/23/10 10:00	0		0.3	19.4	0
GP-20B	7/23/10 10:01	0		0.2	16.5	0
GP-20C	7/23/10 10:05	0		0.1	7.9	0
GP-21A	7/23/10 10:08	0		0	20.5	-3.93
GP-21B	7/23/10 10:10	0		0.1	10.1	0
GP-21C	7/23/10 10:11	0		0.1	20.1	-0.41
GP-22A	7/23/10 10:13	0		0	0	0
GP-22B	7/23/10 10:13	0		0	0	0
GP-22C	7/23/10 10:13	0		0	0	0
GP-23A	7/23/10 10:17	0		0	21	0
GP-23B	7/23/10 10:18	0		0	20.9	0
GP-23C	7/23/10 10:20	0		0	21	0
GP-24A	7/23/10 10:24	0		6.3	10.7	0
GP-24B	7/23/10 10:26	0		0.5	20.2	0
GP-25	7/23/10 10:29	0		4.5	14.3	0.00
GP-26	7/23/10 10:32	0		1.1	18.2	-0.08
GP-27	7/23/10 10:36	0		10.7	5.3	1.08
GP-29A	7/23/10 10:41	0		0.5	20.2	0
GP-29B	7/23/10 10:43	0		0.5	20.4	0
GP-30A	7/23/10 10:53	0		2.7	18.5	-0.1
GP-30B	7/23/10 10:55	0		0.9	11.1	-0.42
GP-31A	7/23/10 10:57	0		0	0	-12.61
GP-31B	7/23/10 10:59	0		0.1	19.4	-0.86

% LEL = Percent Lower Explosive Limit

King County Solid Waste Division
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Data Collected July 2010
Cedar Hills Landfill -- Compliance Probe Testing Results

Sample Location	Sample Date/Time	CH4		CO2	Vol O2	Relative Pressure
		%Vol	%LEL	%Vol	%Vol	in. H2O
GP-31C	7/23/10 11:01	0		1.2	12.7	0
GP-32A	7/23/10 11:04	0		0	21	-0.01
GP-32B	7/23/10 11:06	0		0.3	20.8	0.01
GP-32C	7/23/10 11:07	0		0.2	21	0.01
GP-33A	7/23/10 11:10	0		2.8	16.7	0
GP-33B	7/23/10 11:12	0		0	21	0
GP-33C	7/23/10 11:13	0		0.1	21	-0.34
GP-34A	7/23/10 11:16	0		0	0	0.22
GP-34B	7/23/10 11:17	0		0	21	-0.07
GP-34C	7/23/10 11:19	0		0	19.5	-1.4
GP-35A	7/23/10 11:21	0		0	21	0.02
GP-35B	7/23/10 11:23	0		0	20.9	0
GP-35C	7/23/10 11:24	0		0	20.4	0
GP-36A	7/23/10 11:29	0		0.1	20.6	-0.74
GP-36B	7/23/10 11:31	0		0	20.7	-0.01
GP-36C	7/23/10 11:32	0		0.2	7.9	-1.59
GP-37A	7/23/10 11:35	0		0	0	0
GP-37B	7/23/10 11:37	0		0.4	19.4	-0.22
GP-37C	7/23/10 11:39	0		0.4	2.6	-1.56
GP-39	7/23/10 11:43	0		1.8	16.8	0.00
GP-40	7/23/10 11:47	0		0	14.8	0.00
GP-41A	7/23/10 11:50	0		0	20.4	0
GP-41B	7/23/10 11:51	0		0	20.5	0
GP-41C	7/23/10 11:53	0		0	20.4	-0.01
GP-42A	7/23/10 11:56	0		0	0	-6.75
GP-42B	7/23/10 11:58	0		0.1	20.3	-0.52
GP-43A	7/23/10 12:01	0		0	20.4	-0.01
GP-43B	7/23/10 12:03	0		0	20.3	0
GP-43C	7/23/10 12:05	0		0	20.3	-0.03
GP-44A	7/23/10 12:11	0.2		0.1	20.1	0
GP-44B	7/23/10 12:13	0		0	20.4	-0.21
GP-44C	7/23/10 12:15	0		0	20.5	0

% LEL = Percent Lower Explosive Limit

King County Solid Waste Division
Environmental Data, Landfill Gas Monitoring
Data Collected October 2010
Cedar Hills Landfill -- Compliance Probe Testing Results

Sample Location	Sample Date/Time	CH4		CO2	Vol O2	Relative Pressure	Comment
		%Vol	%LEL	%Vol	%Vol	in. H2O	
ATC-1 s	10/15/10 1:33 PM	0	0	0	19.6	0	
ATC-1 d	10/15/10 1:32 PM	0	0	0	19.6	0	
ATC-6 s	10/15/10 2:21 PM	0	0	0	20.3	-0.43	
ATC-6 d	10/15/10 2:20 PM	0	0	0	19.6	0.01	
ATC-8 s	10/15/10 2:32 PM	0	0	0	12.2	0.5	
ATC-8 d	10/15/10 2:30 PM	0	0	0	18.3	0	
GP-11 a	10/15/10 1:22 PM	0	0	1.8	17.7	0	
GP-11 b	10/15/10 1:24 PM	0	0	0	19.2	-1.23	
GP-11 c	10/15/10 1:25 PM	0	0	0	19.4	-0.98	
GP-11 d	10/15/10 1:27 PM	0	0	0.1	19.3	0.07	
GP-12 a	10/15/10 1:46 PM	0	0	1.5	18.4	0	
GP-12 b	10/15/10 1:48 PM	0	0	0	20	0	
GP-12 c	10/15/10 1:49 PM	0	0	0.2	18.1	-0.02	
GP-12 d	10/15/10 1:51 PM	0	0	0.2	19.1	-3.31	
GP-13 a	10/15/10 1:39 PM	0	0	1.5	18.6	0	
GP-13 b	10/15/10 1:40 PM	0	0	0	19.8	0	
GP-13 c	10/15/10 1:41 PM	0	0	0	20	-0.04	
GP-13 d	10/15/10 1:43 PM	0	0	0	20	-2.89	
GP-14 a	10/15/10 1:57 PM	0	0	0	20.1	-2.4	
GP-14 b	10/15/10 1:58 PM	0	0	0	20.3	-2.52	
GP-15 a	10/15/10 2:09 PM	0	0	0.3	20.2	0.05	Water During Sampling
GP-15 b	10/15/10 2:06 PM	0	0	1.7	12.2	-0.7	
GP-15 c	10/15/10 2:07 PM	0	0	0.1	20.2	-4.3	
GP-16 a	10/15/10 2:27 PM	0	0	2.8	18.2	0	
GP-16 b	10/15/10 2:24 PM	0	0	0	20.6	-4.32	
GP-16 c	10/15/10 2:26 PM	0	0	0.1	20.5	-2.16	
GP-17 a	10/15/10 9:11 AM	0	0	0	0	-11.72	No read-H2O
GP-17 b	10/15/10 9:08 AM	0	0	0.9	16.8	0	
GP-17 c	10/15/10 9:10 AM	0	0	0.1	20.7	-2.23	
GP-18 a	10/15/10 9:15 AM	0	0	2.1	17.8	0	
GP-18 b	10/15/10 9:16 AM	0	0	0.5	13.9	0	
GP-18 c	10/15/10 9:18 AM	0	0	1.2	7.4	-2.26	
GP-19 a	10/15/10 9:21 AM	0	0	0.1	20.6	0	
GP-19 b	10/15/10 9:22 AM	0	0	0.8	15.8	0.01	
GP-19 c	10/15/10 9:24 AM	0	0	0.1	20.7	-0.14	
GP-20 a	10/15/10 9:27 AM	0	0	1.3	19.7	0	
GP-20 b	10/15/10 9:28 AM	0	0	0.3	19.8	0	
GP-20 c	10/15/10 9:30 AM	0	0	0.2	6.4	0	
GP-21 a	10/15/10 9:33 AM	0	0	0.1	20.4	0	
GP-21 b	10/15/10 9:35 AM	0	0	0.1	10.3	0	
GP-21 c	10/15/10 9:36 AM	0	0	0.2	19.9	-0.37	
GP-22 a	10/15/10 9:38 AM	--	--	--	--	--	No Read Broken
GP-22 b	10/15/10 9:38 AM	--	--	--	--	--	No Read Broken
GP-22 c	10/15/10 9:38 AM	--	--	--	--	--	No Read Broken
GP-23 a	10/15/10 9:41 AM	0	0	1.3	19.8	-0.01	
GP-23 b	10/15/10 9:43 AM	0	0	0.1	20.7	0	
GP-23 c	10/15/10 9:44 AM	0	0	0.1	20.8	-0.02	
GP-24 a	10/15/10 9:49 AM	0	0	5.3	15.8	0	

% LEL = Percent Lower Explosive Limit

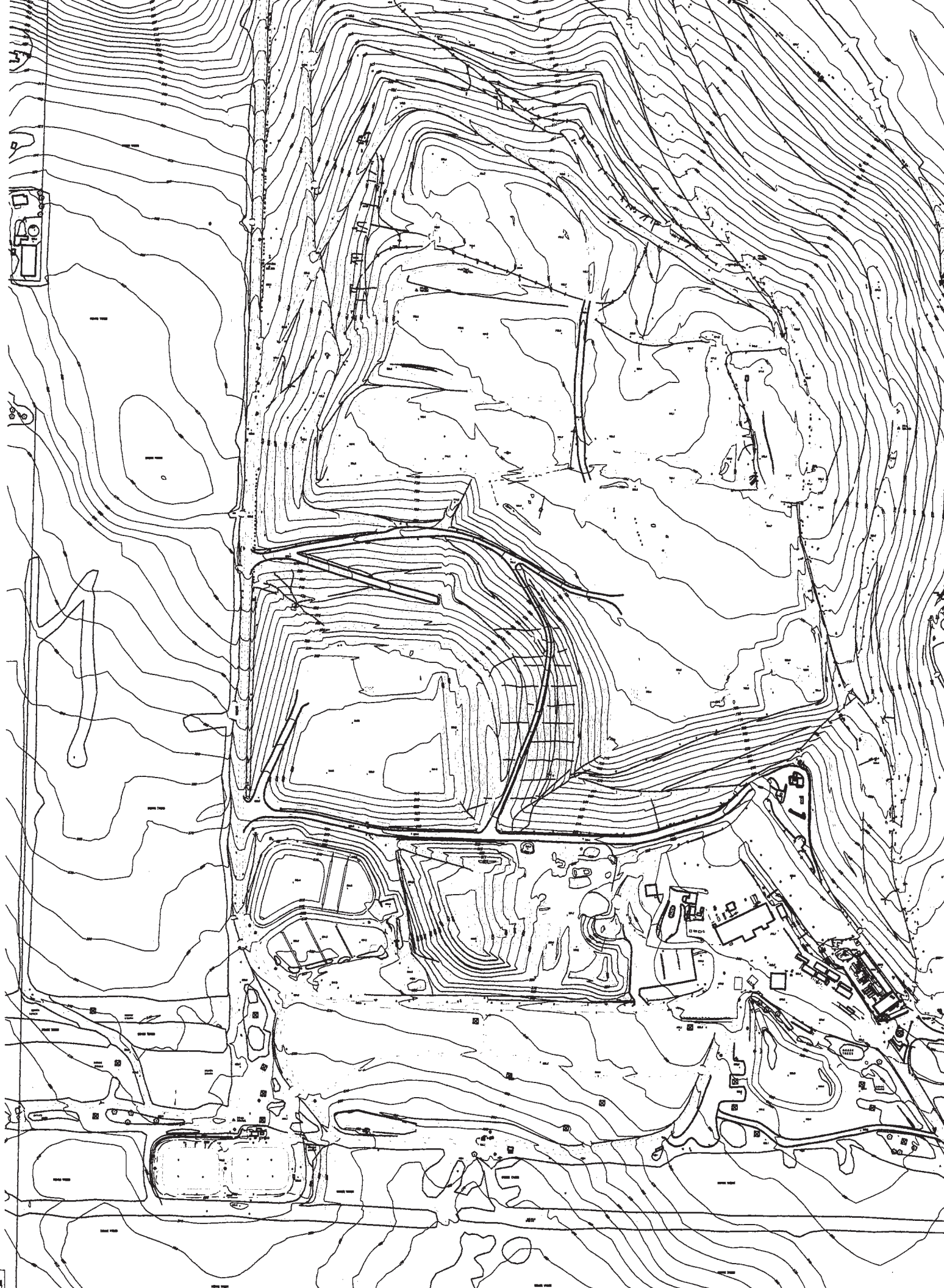
King County Solid Waste Division
Environmental Data, Landfill Gas Monitoring
Data Collected October 2010
Cedar Hills Landfill -- Compliance Probe Testing Results

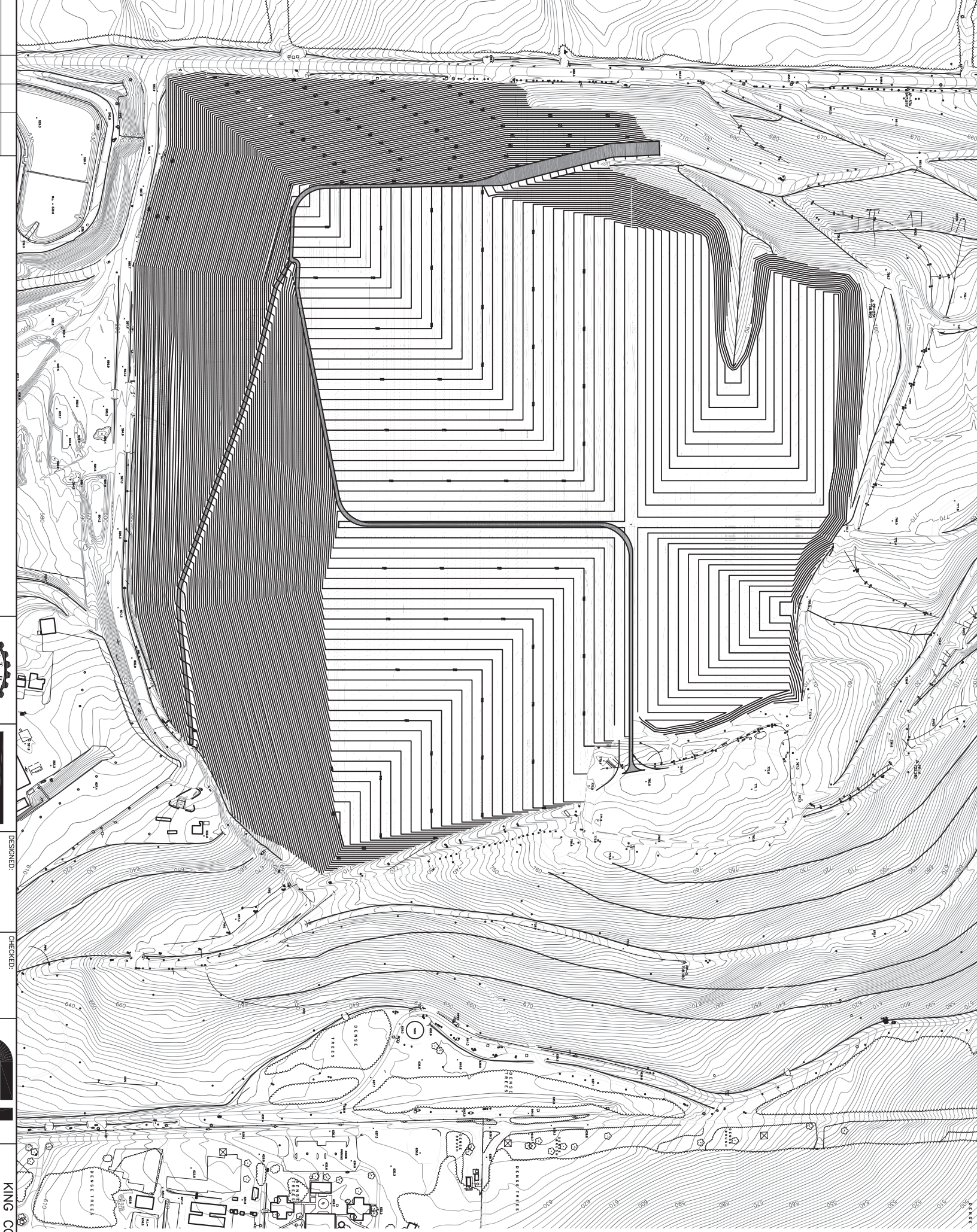
Sample Location	Sample Date/Time	CH4		CO2	Vol O2	Relative Pressure	Comment
		%Vol	%LEL	%Vol	%Vol	in. H2O	
GP-24 b	10/15/10 9:51 AM	0	0	0.2	20.5	-0.79	
GP-25	10/15/10 9:53 AM	0	0	3.3	17.5	0	
GP-26	10/15/10 9:57 AM	0	0	0.7	20.3	-1.72	
GP-27	10/15/10 10:01 AM	0	0	11.8	7.5	-0.36	
GP-29 a	10/15/10 10:06 AM	0	0	0.5	20.2	0	
GP-29 b	10/15/10 10:07 AM	0	0	0.2	20.6	-0.05	
GP-30 a	10/15/10 10:24 AM	0	0	2.2	18.7	-0.14	
GP-30 b	10/15/10 10:25 AM	0	0	1.6	10.7	-0.86	
GP-31 a	10/15/10 10:32 AM	0	0	6.7	12.5	-8.18	
GP-31 b	10/15/10 10:28 AM	0	0	0.2	16	-1.28	
GP-31 c	10/15/10 10:30 AM	0	0	2.4	6.6	-3.28	
GP-32 a	10/15/10 10:34 AM	0	0	0.1	20.5	-0.02	
GP-32 b	10/15/10 10:36 AM	0	0	0.2	20.4	0	
GP-32 c	10/15/10 10:37 AM	0	0	0.2	20.6	-0.02	
GP-33 a	10/15/10 10:40 AM	0	0	3	16.7	0	
GP-33 b	10/15/10 10:41 AM	0	0	0.1	20.7	0	
GP-33 c	10/15/10 10:43 AM	0	0	0.1	20.8	-0.74	
GP-34 a	10/15/10 10:47 AM	35.9	> 100%	12.9	2.1	15.97	Water During Sampling
GP-34 b	10/15/10 10:50 AM	0	0	0.1	20.7	-0.14	
GP-34 c	10/15/10 10:48 AM	0	0	0.1	20.3	-1.98	
GP-35 a	10/15/10 10:52 AM	0	0	0.1	20.7	0	
GP-35 b	10/15/10 10:54 AM	0	0	0	20.8	0	
GP-35 c	10/15/10 10:55 AM	0	0	0.1	20.6	0	
GP-36 a	10/15/10 10:58 AM	0	0	0.7	20.3	-1.66	
GP-36 b	10/15/10 11:00 AM	0	0	0.1	20.7	0.02	
GP-36 c	10/15/10 11:01 AM	0	0	0.4	8.9	-2.58	
GP-37 a	10/15/10 11:07 AM	0	0	2.3	15.3	-0.01	
GP-37 b	10/15/10 11:04 AM	0	0	0.3	19.6	0.08	
GP-37 c	10/15/10 11:06 AM	0	0	0.5	7.3	-2.46	
GP-39	10/15/10 11:13 AM	0	0	1.5	18.3	-0.11	
GP-40	10/15/10 11:16 AM	0	0	0	19	0	
GP-41 a	10/15/10 11:19 AM	0	0	4.1	16.5	0	
GP-41 b	10/15/10 11:21 AM	0	0	0.8	5.8	0.07	
GP-41 c	10/15/10 11:22 AM	0	0	0	20.5	0	
GP-42 a	10/15/10 11:26 AM	0	0	0.4	18	0	Water During Sampling
GP-42 b	10/15/10 11:27 AM	0	0	0.3	20.4	-1.13	
GP-43 a	10/15/10 11:31 AM	0	0	0	20.8	-0.03	
GP-43 b	10/15/10 11:33 AM	0	0	0	20.9	0	
GP-43 c	10/15/10 11:35 AM	0	0	0	20.8	-0.07	
GP-44 a	10/15/10 11:41 AM	0	0	0.1	20.7	0	
GP-44 b	10/15/10 11:38 AM	0	0	0.8	10.8	-0.33	
GP-44 c	10/15/10 11:39 AM	0	0	0	20.5	0	
GP-45 a	10/15/10 1:17 PM	0	0	0	19.1	0.02	
GP-45 b	10/15/10 1:19 PM	0	0	0	19.2	-0.03	
GP-45 c	10/15/10 1:20 PM	0	0	0	19.3	-0.68	

% LEL = Percent Lower Explosive Limit

Attachment F

Landfill Topography and Settlement Monitoring Stations





DESIGNED:

CHECKED:

KING COUNTY

1" = 50'



LEGEND:

○ ACTIVE MONITORING STATION

DATE	REVISION	BY

CEDAR HILLS REGIONAL LANDFILL
SETTLEMENT MONITORING LOCATIONS

APPROVED YOO DATE JUNE 2010
RECOMMENDED - DATE -
DESIGNED XOX,XXXX DRAWN TPP
PROJECT NO. SURVEY NO. SHEET 1 OF 1

Attachment F

Settlement Monitoring Data and Percent Settlement

Station	Period	Monthly Settlement Rate ¹ (ft/month)	Annual Settlement Rate ¹ (%/year)
PP-5 NORTHING: 171402.80 EASTING: 1701398.90 Start Elevation: 717.44 ft End Elevation: 707.46 ft	1992	0.056	0.68%
	1993	0.081	1.17%
	1994	0.076	1.10%
	1995	0.071	1.02%
	1996	0.067	0.96%
	1997	0.062	0.89%
	1998	0.057	0.82%
	1999	0.053	0.76%
	2000	0.049	0.71%
	2001	0.045	0.65%
	2002	0.042	0.60%
	2003	0.038	0.55%
	2004	0.035	0.50%
	2005	0.032	0.46%
	2006	0.029	0.41%
	2007	0.026	0.38%
	2008	0.024	0.34%
	2009	0.021	0.31%
	2010	0.019	0.28%
PP-6 ² & PP-6A NORTHING: 172212.44 EASTING: 1700700.56 Start Elevation: 736.89ft End Elevation: 720.62ft	1992	0.154	1.40%
	1993	0.127	1.37%
	1994	0.117	1.27%
	1995	0.108	1.17%
	1996	0.100	1.09%
	1997	0.093	1.00%
	1998	0.086	0.93%
	1999	0.079	0.86%
	2000	0.074	0.80%
	2001	0.069	0.74%
	2002	0.064	0.69%
	2003	0.060	0.65%
	2004	0.057	0.62%
	2005	0.054	0.59%
	2006	0.052	0.57%
	2007	0.051	0.55%
	2008	0.051	0.55%
	2009	0.050	0.54%
	2010	0.051	0.55%

Attachment F

Settlement Monitoring Data and Percent Settlement

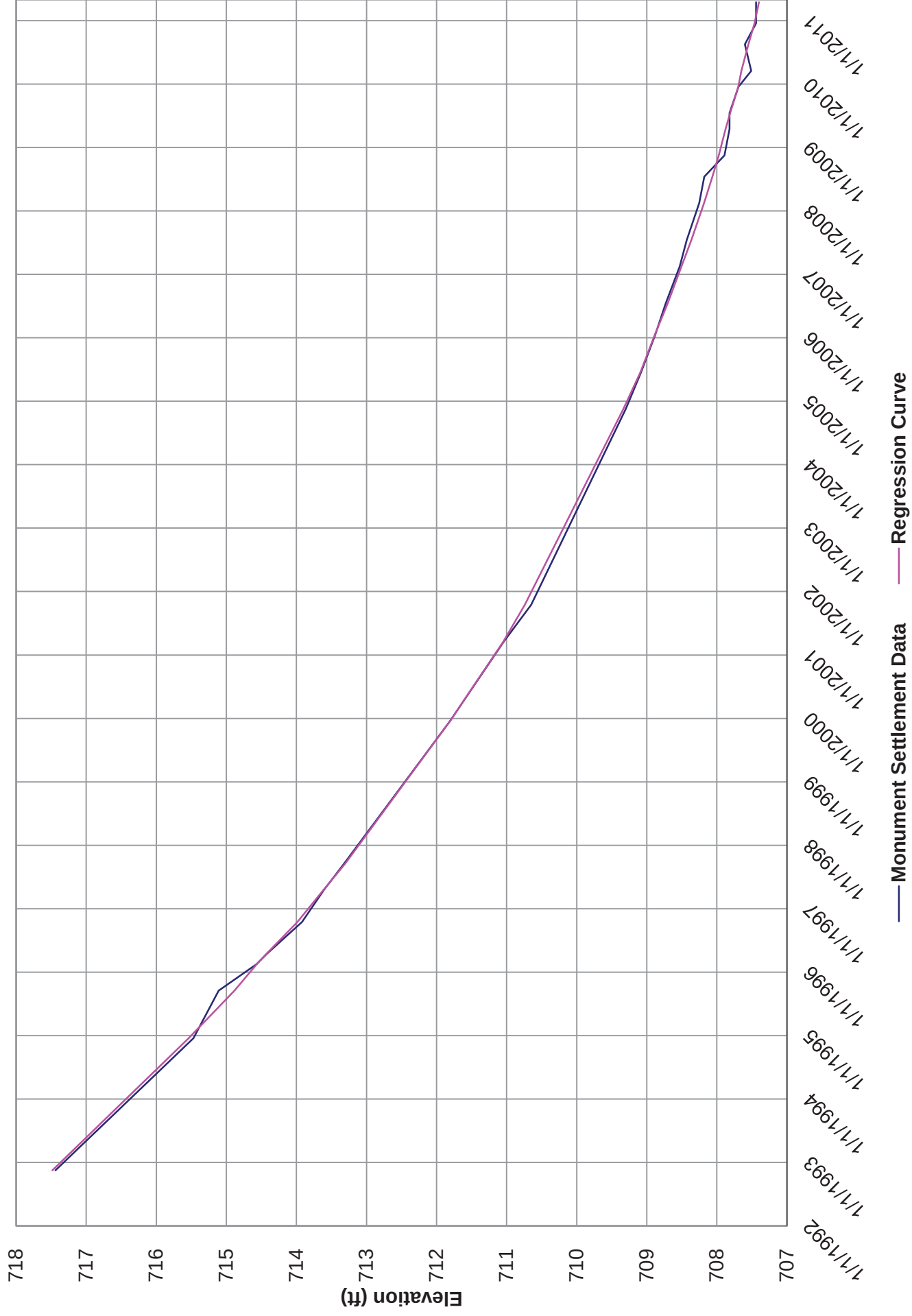
Station	Period	Monthly Settlement Rate ¹ (ft/month)	Annual Settlement Rate ¹ (%/year)
CONCBLK NORTHING: 171168.28 EASTING: 1700716.24 Start Elevation: 782.50 ft End Elevation: 778.33 ft	2003	0.045	0.36%
	2004	0.048	0.44%
	2005	0.048	0.44%
	2006	0.048	0.44%
	2007	0.048	0.44%
	2008	0.048	0.44%
	2009	0.048	0.44%
	2010	0.049	0.45%
PP-23A NORTHING: 172055.30 EASTING: 1699095.22 Start Elevation: 775.53 ft End Elevation: 756.34 ft	2001	0.363	2.20%
	2002	0.285	1.72%
	2003	0.248	1.50%
	2004	0.215	1.30%
	2005	0.184	1.11%
	2006	0.157	0.95%
	2007	0.133	0.80%
	2008	0.112	0.68%
	2009	0.094	0.57%
	2010	0.080	0.48%
A5SM-1 NORTHING: 170865.75 EASTING: 1699107.52 Start Elevation: 699.18 ft End Elevation: 688.15 ft	2005	0.358	3.73%
	2006	0.261	2.63%
	2007	0.213	2.15%
	2008	0.166	1.67%
	2009	0.118	1.19%
	2010	0.071	0.71%
A5SM-2 NORTHING: 171257.45 EASTING: 1699922.50 Start Elevation: 785.17 ft End Elevation: 766.32 ft	2005	0.625	3.79%
	2006	0.444	2.60%
	2007	0.334	1.95%
	2008	0.254	1.48%
	2009	0.202	1.18%
	2010	0.181	1.06%
A4SM-3 NORTHING: 172704.89 EASTING: 1699170.71 Start Elevation: 763.20 ft End Elevation: 756.82 ft	2005	0.132	1.03%
	2006	0.124	0.91%
	2007	0.112	0.82%
	2008	0.100	0.73%
	2009	0.088	0.64%
	2010	0.076	0.56%
13HUB ² NORTHING: 171875.95 EASTING: 1699686.92 Start Elevation: 786.16ft End Elevation: 782.16ft	2005	0.490	2.76%
	2006	0.067	0.41%

Attachment F

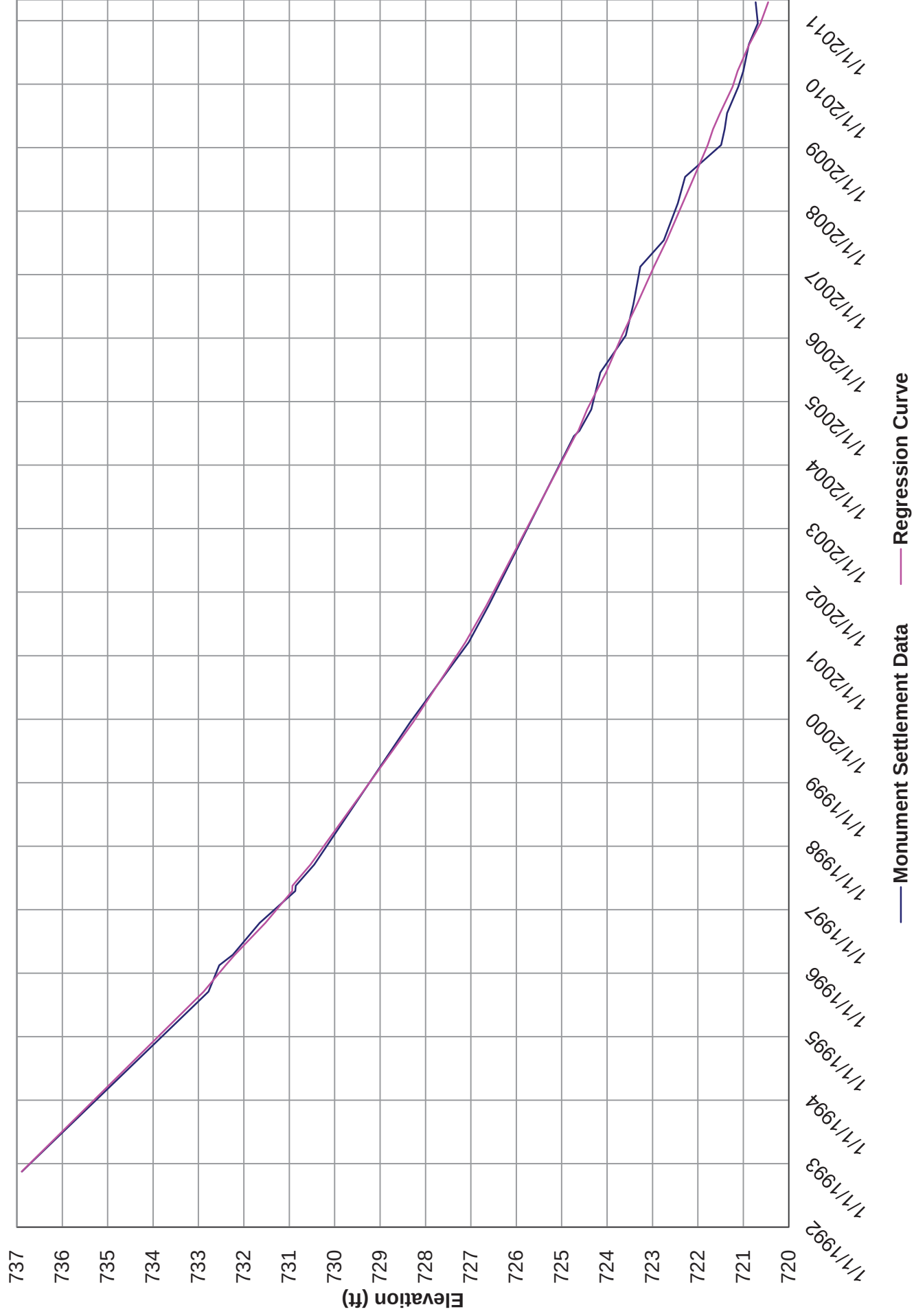
Settlement Monitoring Data and Percent Settlement

Station	Period	Monthly Settlement Rate ¹ (ft/month)	Annual Settlement Rate ¹ (%/year)
AIRHUB NORTHING: 171855.47 EASTING: 1700517.68 Start Elevation: 776.48 ft End Elevation: 771.40 ft	2004	0.095	0.72%
	2005	0.073	0.62%
	2006	0.069	0.59%
	2007	0.065	0.55%
	2008	0.061	0.51%
	2009	0.056	0.48%
	2010	0.052	0.44%
PMX20074 (NEAR 13HUB) NORTHING: 171861.13 EASTING: 1699809.82 Start Elevation: 781.56 ft End Elevation: 774.73 ft	2007	0.259	1.44%
	2008	0.207	1.76%
	2009	0.161	1.36%
	2010	0.115	0.97%
1. Monthly and annual rates are calculated from best fit curves developed from plotted data points. 2. PP-6 and 13HUB were destroyed in 2008 and 2007 respectively.			

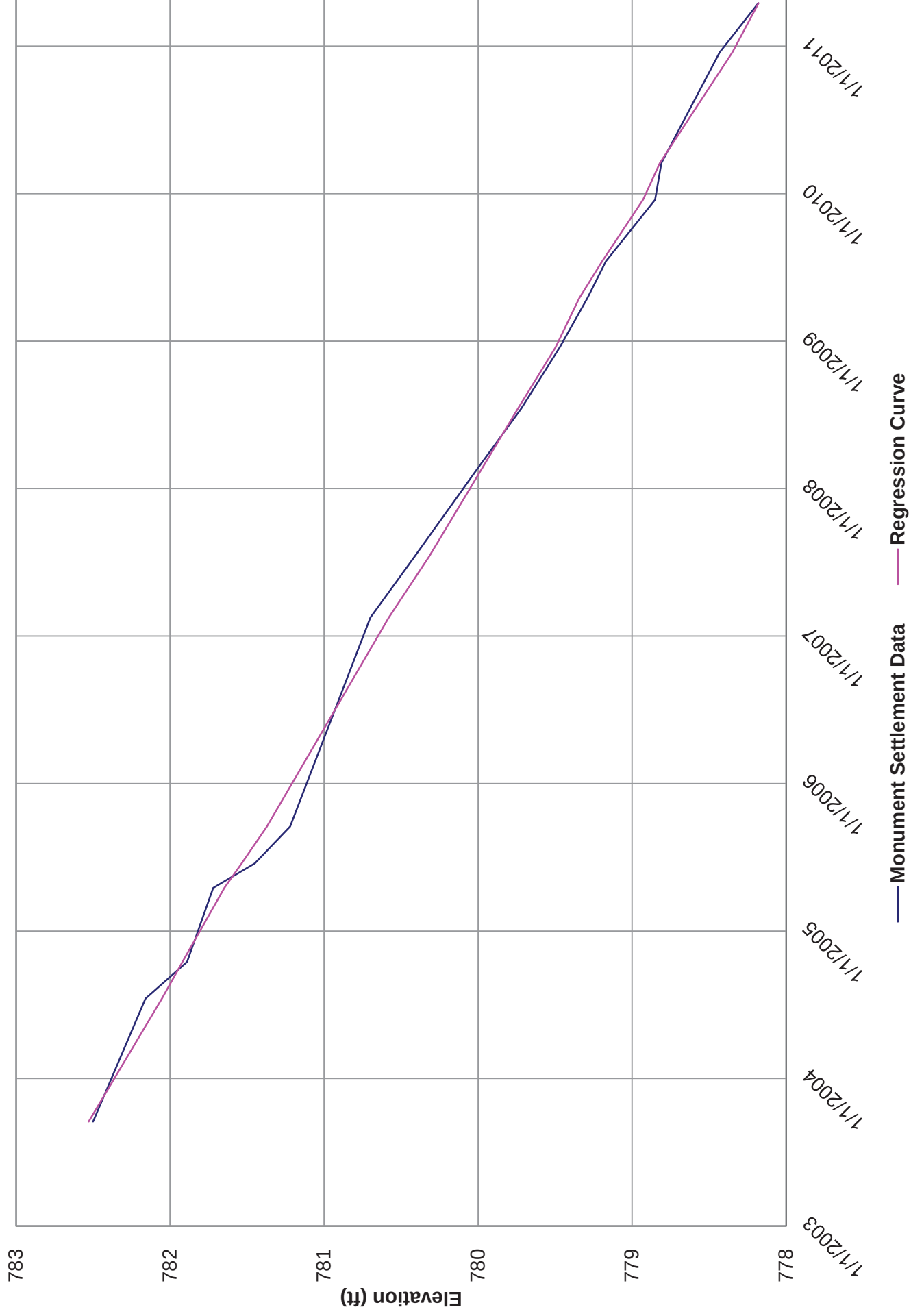
PP-5 Settlement Monument



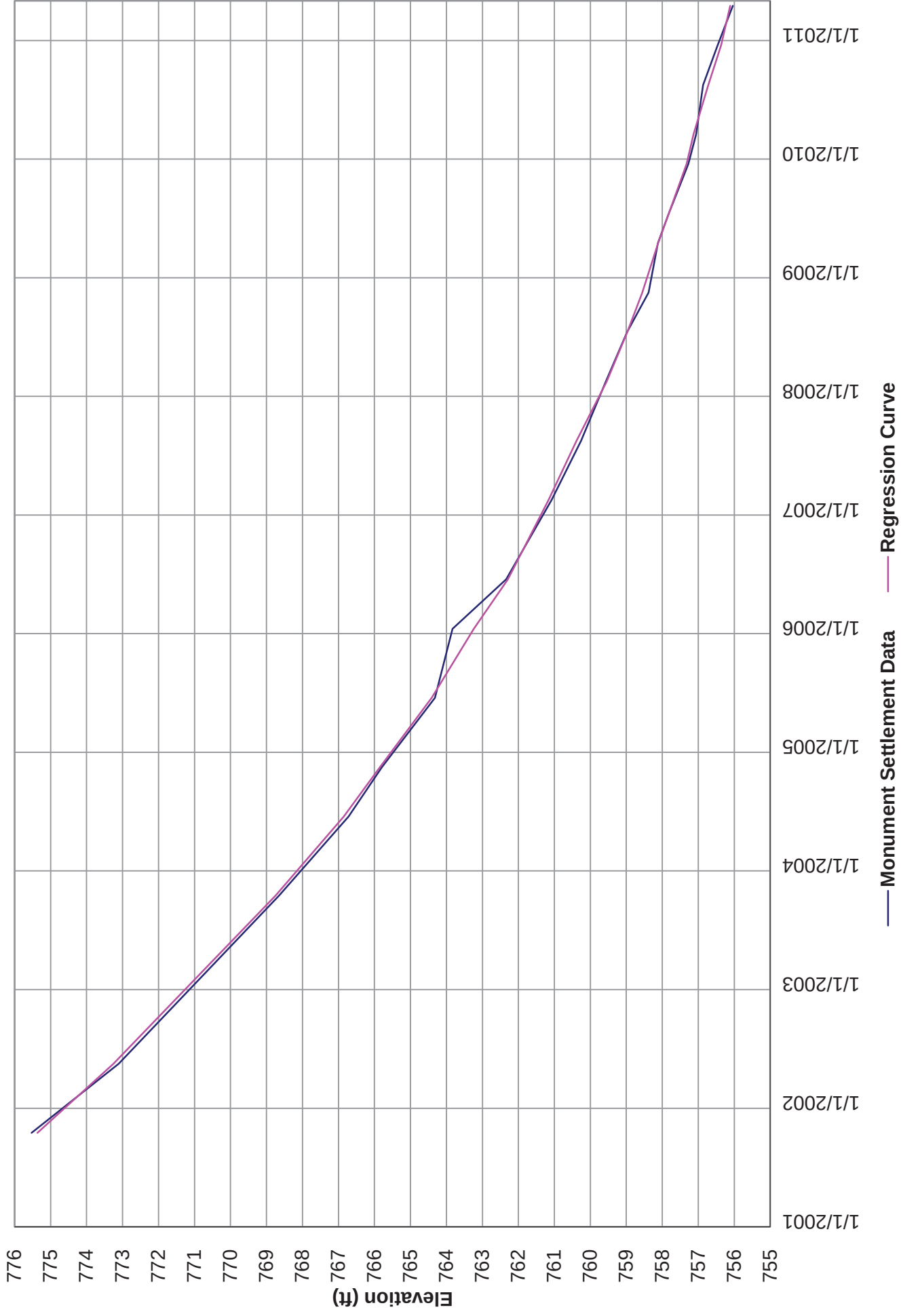
PP-6 & PP-6A Settlement Monuments



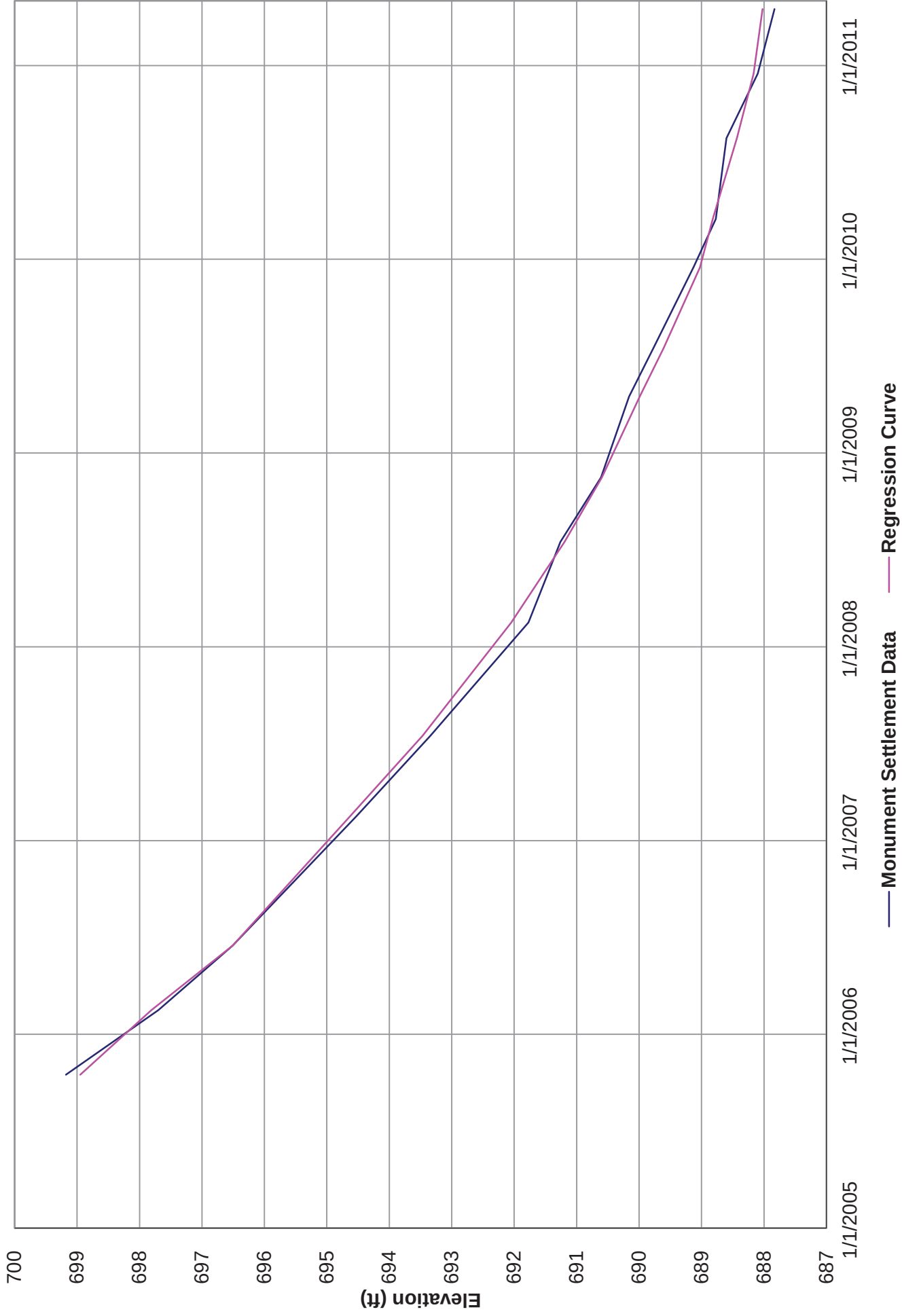
CONCBLK Settlement Monument



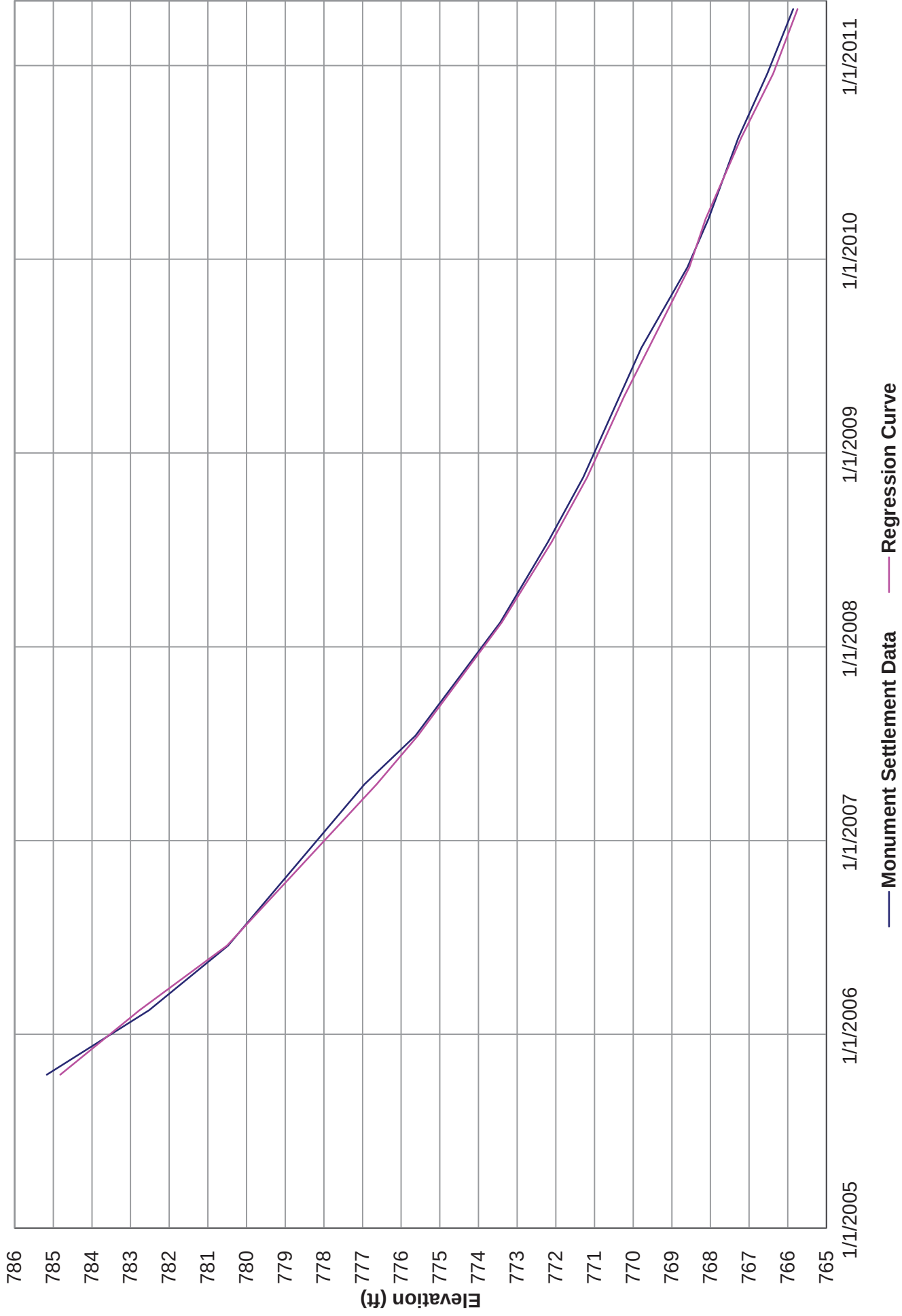
PP-23A Settlement Monument



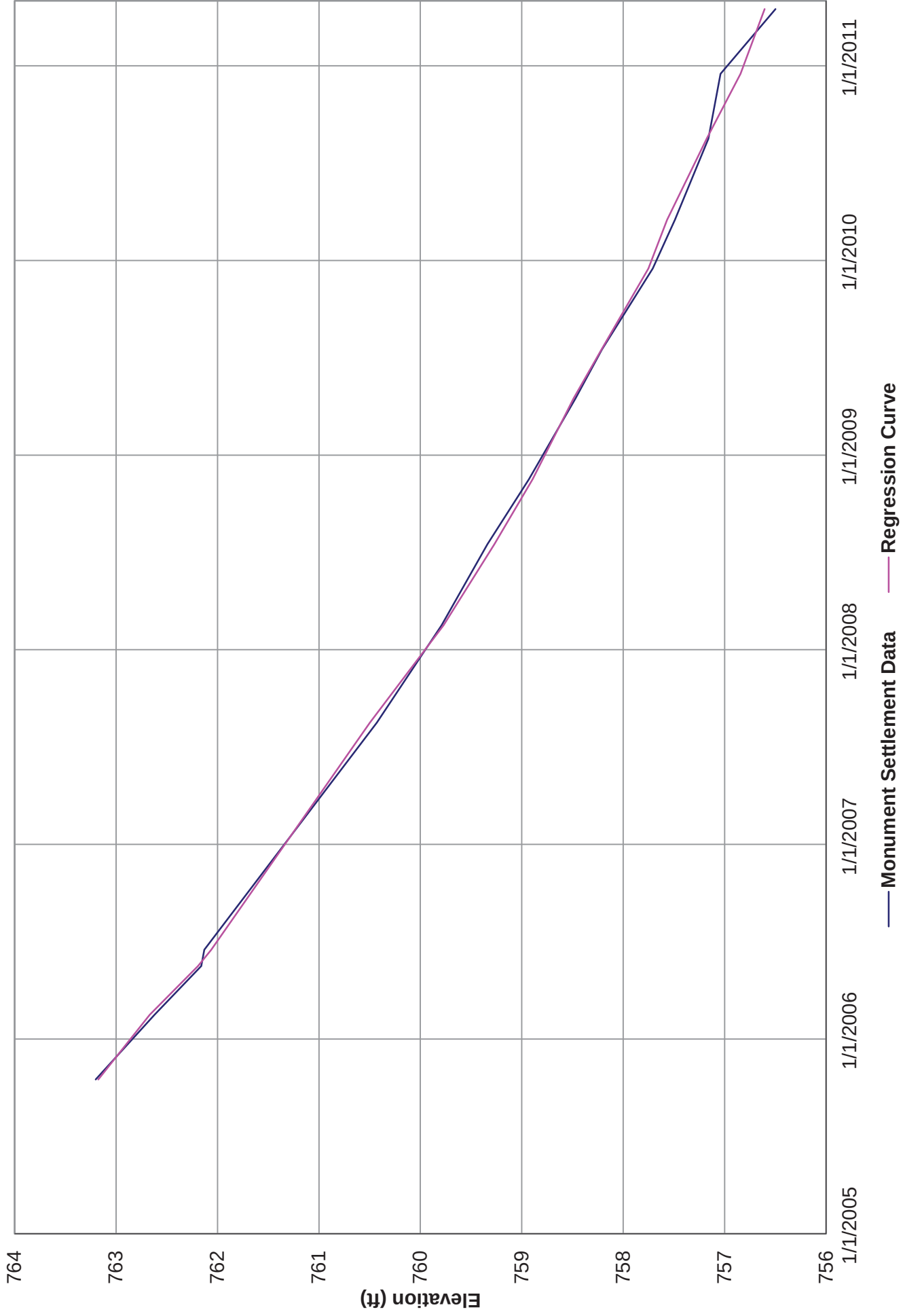
A5SM-1 Settlement Monument



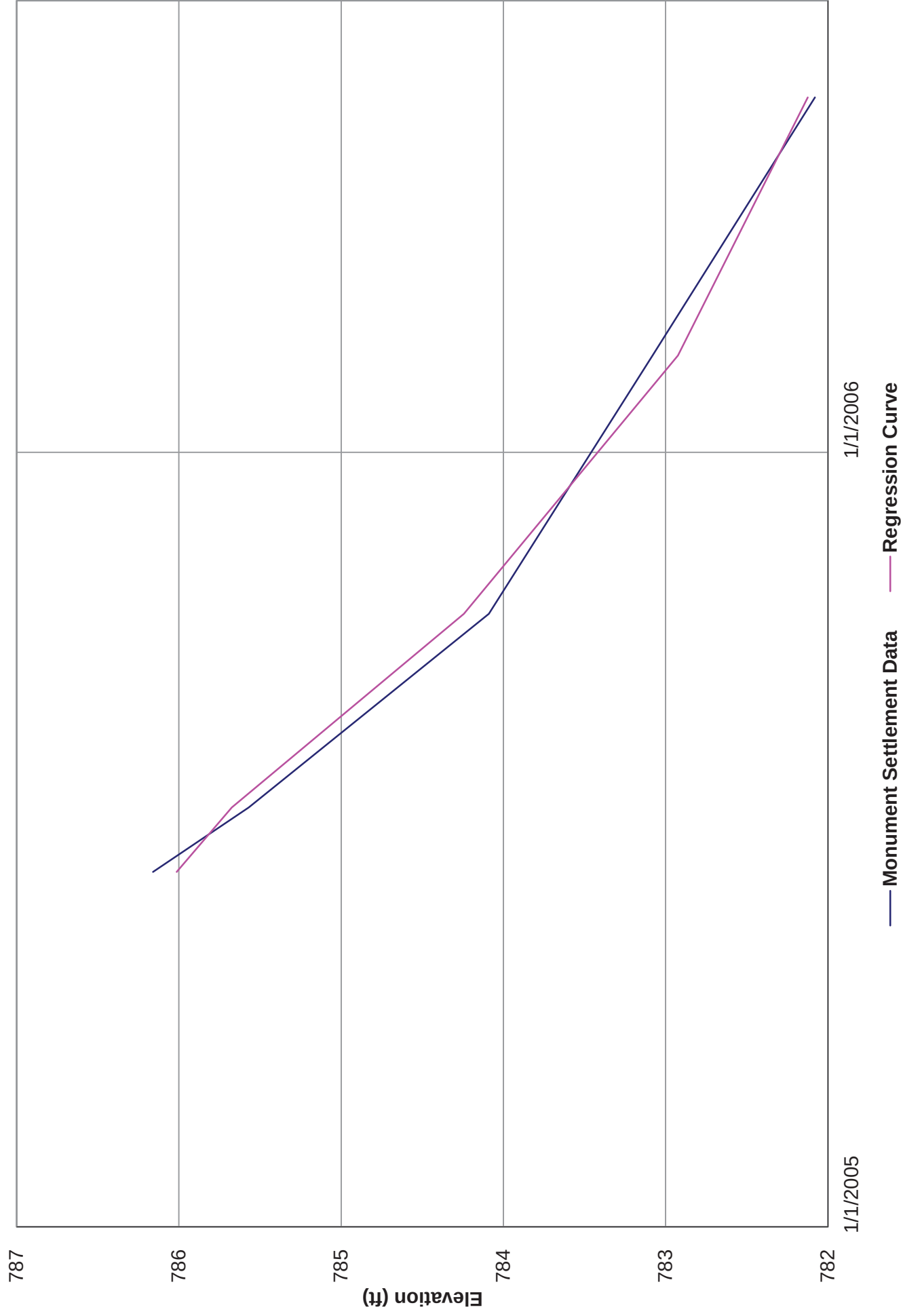
A5SM-2 Settlement Monument



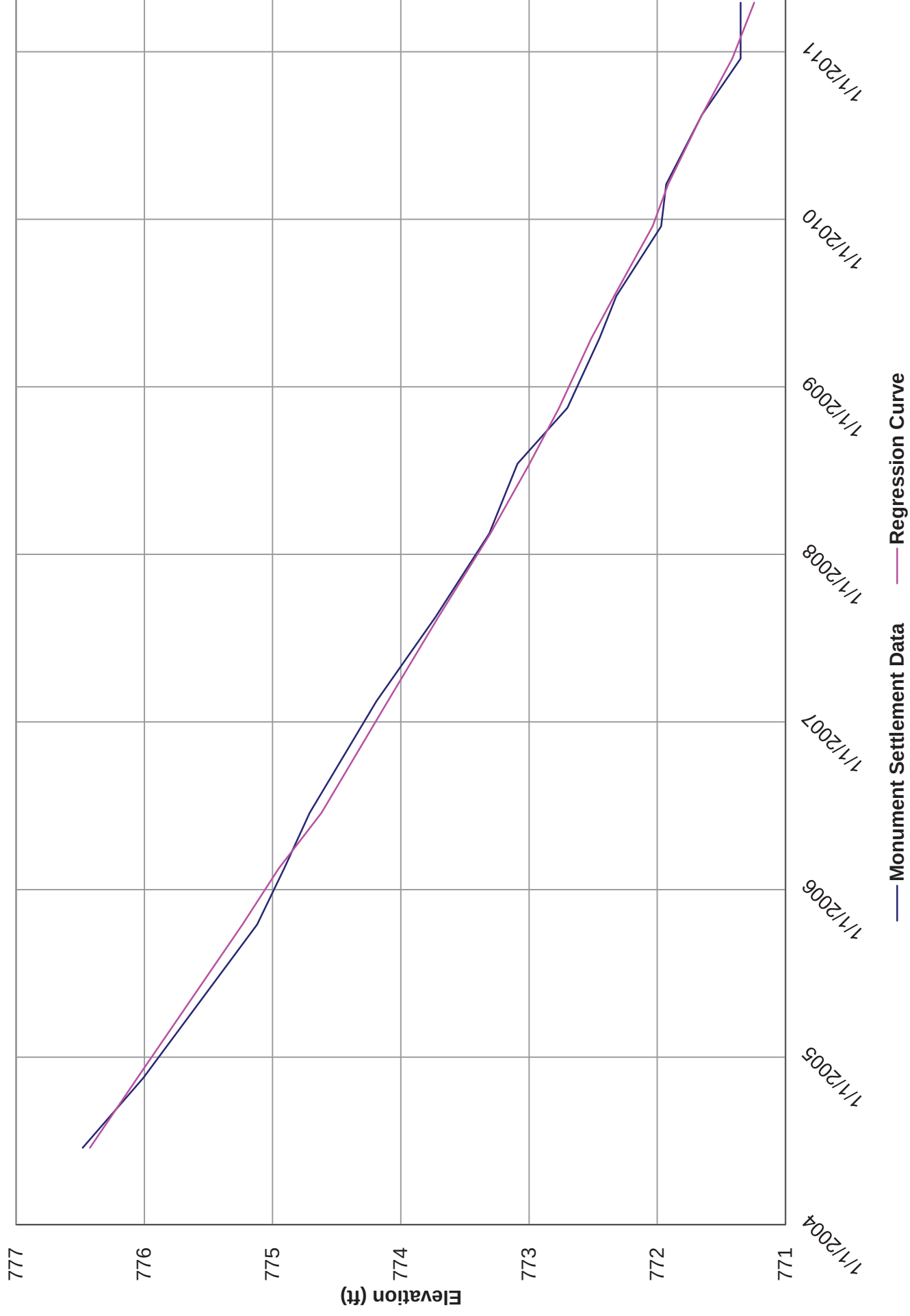
A4SM-3 Settlement Monument



13HUB Settlement Monument (Destroyed)



AIR HUB Settlement Monument



PMX20074 Settlement Monument

