File

Environmental Resources Management

12755 Olive Blvd.
Suite 110
St. Louis, MO 63141
(314) 682-3980
(314) 682-3970 (fax)

November 13, 2013

NOV 15 2013
AWMD/WRAP

ERM

Ms. Christine Jump
AWMD/WRAP
U.S. Environmental Protection Agency, Region VII
11201 Renner Boulevard
Lenexa, KS 66219

RE: Request to Switch SSDS Performance Monitoring
From Quarterly to Semi-Annually
Former SECO Products Facility - Washington, Missouri
EPA ID# MOD068549492
ERM Project No. 0185495

RCRA
551712

Dear Ms. Jump:

In accordance with the Periodic Performance Monitoring section of the Sub-Slab Depressurization System (SSDS) Operation & Maintenance Plan (O&M plan) submitted to the USEPA on June 11, 2010, ERM, on behalf of Hussman Corporation, requests that SSDS performance monitoring events at the former SECO Products Facility located at 5025 Old Highway 100 in Washington, Missouri (the Site), be performed on a frequency less than quarterly starting in 2014. Based on the O&M plan, "once consistent, effective performance has been demonstrated, appropriate less frequent performance monitoring activities will be recommended." Monitoring frequency has been previously reduced for the Site. Within the Annual Progress Report & Semi-Annual Status Report (2nd Half 2010) dated February 23, 2011, and in a follow-up letter on April 17, 2013, ERM requested that performance monitoring events switch from monthly to quarterly. Formal approval of this change was given by the EPA and was received by ERM on July 26, 2013.

Based on the following facts, it is ERM's position that the performance monitoring events from 2010 to the present show consistent and effective performance of the SSDS and therefore ERM proposes that the periodic SSDS performance monitoring events switch from quarterly to semi-annual events beginning in 2014:

- all of the SSDS alignments have shown a negative differential pressure gradient at the blower manifold and at the location where each alignment exits from below the floor during the performance monitoring events from 2010 to the present;

- all of the digital differential manometer data readings collected from the 29 performance monitoring points in the facility floor have consistently shown a negative or neutral differential pressure gradient during the performance of monthly performance monitoring events from 2010 to the present;

- when a performance monitoring point in the facility floor has shown a neutral differential pressure gradient, the point has been smoke tested to verify whether a negative differential pressure gradient below the sensitivity of the digital differential manometer is present. In all instances where a neutral differential pressure gradient has been observed, a negative pressure gradient has been verified through smoke testing.

Field data sheets, summary tables and differential pressure plots for each SSDS alignment and each of the 29 floor performance monitoring points with data from the Second Half of 2010 to the First Half of 2013 are presented in the respective semi-annual reports that have been submitted to your office. Field data sheets, summary tables and differential pressure plots for each SSDS alignment and each of the 29 floor performance monitoring points with data since the First Half of 2013 are attached to this letter for your reference.

We look forward to your response to the above request. Please contact me if you have any questions or comments concerning the contents of this report.

Sincerely,

Alan J. Cork, P.E.
Principal Consultant

Enclosures

cc: David Sordi – Ingersoll Rand (electronic copy)
Meagan Prestegard, P.E. – MDNR HWP
St. Louis Regional Office, MDNR

Quarterly SSDS O&M/
Performance Monitoring Field
Sheets Since First Half 2013

Attachment F
Former SECO Products Site
Washington, Missouri

ERM

SSDS O&M/Performance Monitoring Field Sheet

Date: 9/13/2013 **ERM Personnel:** Alan Cork, Adrienne Boettcher

Sub-slab Performance Monitoring Points

ID			Distance from sub-slab piping (ft)	Pressure ("H20)	Pressure (kPa)	Notes/Comments
SSVP-1	VS-A/VS-J/VS-D	+/-80/100/60	+/-18/15/14	0.0	0.00	Draw observed with smoke
SSVP-2	VS-A	+/-26	+/-14	-0.1	-0.02	
SSVP-3	VS-C	+/-46	+/-5	0.0	0.00	Draw observed with smoke
SSVP-5	VS-J/VS-E	+/-8/30	+/-8/6	0.0	0.00	Draw observed with smoke
SSVP-6 (1)	VS-B	+/-27	+/-24	0.0	0.00	Draw observed with smoke
SSVP-7	VS-C	+/-69	+/-10	-0.1	-0.02	
SSVP-8	VS-D/VS-C	+/-30/33	+/-12/24	-0.1	-0.02	
SSVP-9 (1)	VS-D/VS-E/VS-H	+/-66/72/90	+/-15/15/33	0.0	0.00	Draw observed with smoke
SSVP-10 (1)	VS-F	+/-20	+/-2	-0.1	-0.02	
SSVP-11	VS-G	+/-54	+/-6	-0.2	-0.05	
SSVP-12	VS-H	+/-10	+/-7	0.0	0.00	Draw observed with smoke
SSVP-13	VS-H	+/-111	+/-4	-0.1	-0.04	
SSVP-14 (1)	VS-I	+/-78	+/-14	0.0	0.00	Draw observed with smoke
SSVP-100-R (2)	VS-B	+/-130	+/-3	0.0	0.00	Draw observed with smoke
SSVP-101	VS-B	+/-109	+/-24	0.0	0.00	Draw observed with smoke
SSVP-102	VS-B	+/-75	+/-3	0.0	0.00	Draw observed with smoke
SSVP-103	VS-L	+/-159	+/-4	-0.1	-0.02	
SSVP-104	VS-L	+/-159	+/-21	-0.1	-0.02	
SSVP-105	VS-L	+/-39	+/-5	-0.1	-0.02	
SSVP-106	VS-L	+/-65	+/-24	-0.1	-0.02	
SSVP-107	VS-I	+/-33	+/-10	0.0	0.00	Draw observed with smoke
SSVP-108	VS-K	+/-21	+/-7	-0.1	-0.04	
SSVP-109	VS-C	+/-102	+/-11	0.0	0.00	Draw observed with smoke
SSVP-110	VS-G	+/-84	+/-13	-0.2	-0.05	
SSVP-111	VS-A	+/-75	+/-3	-0.1	-0.02	
SSVP-112	VS-H	+/-30	+/-27	-0.1	-0.02	
SSVP-113	VS-H	+/-75	+/-11	0.0	0.00	Draw observed with smoke
SSVP-114	VS-F/VS-E	+/-35/5	+/-9/9	-0.1	-0.04	
SSVP-115	VS-F	+/-15	+/-6	0.0	0.00	Draw observed with smoke

Notes:
(1) Historical Radon Sampling Locations
(2) SSVP-100 was removed by property owner during concrete floor slab repair work

Summary Tables & Differential Pressure Plots for SSDS Alignments & Floor Performance Monitoring Points – March 2010 through September 2013.

At Vent Stack Coming From Sub-Slab

	BLOWER #1 - Vent Stack IDs												BLOWER #2 - Vent Stack IDs											
	VS-A		VS-B		VS-C		VS-D		VS-E		VS-J		VS-F		VS-G		VS-H		VS-I		VS-K		VS-L	
Data Collection Date	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)
3/5/2010	-0.11	440	0.00	367	-0.02	487	-0.08	245	-0.08	216	-0.12	386	-0.08	540	-0.08	358	-0.08	285	0.00	295	-0.02	260	-0.02	332
3/18/2010	-0.16	425	-0.02	406	-0.12	300	-0.13	289	-0.14	236	-0.16	425	-0.14	330	-0.10	414	-0.13	367	-0.02	289	-0.05	244	-0.05	428
3/30/2010	-0.15	476	-0.02	462	-0.12	410	-0.14	241	-0.15	303	-0.15	495	-0.17	324	-0.11	379	-0.14	312	-0.02	372	-0.05	391	-0.05	408
4/28/2010	-0.15	540	-0.02	470	-0.18	284	-0.18	258	-0.18	320	-0.18	497	-0.16	372	-0.14	220	-0.17	119	-0.02	380	-0.05	356	-0.07	422
5/21/2010	-0.05	503	-0.08	529	-0.02	343	-0.05	210	-0.08	338	-0.05	499	-1.45	377	-0.35	354	-0.05	178	-0.29	408	-0.55	402	-0.05	439
6/24/2010	-0.14	544	-0.02	469	-0.16	125	-0.17	154	-0.17	283	-0.13	526	-0.17	326	-0.16	314	-0.16	242	-0.02	435	-0.05	388	-0.08	415
7/22/2010	-0.14	460	-0.05	445	-0.14	275	-0.13	200	-0.14	280	-0.14	520	-0.17	300	-0.20	275	-0.20	223	-0.05	405	-0.08	370	-0.11	400
8/26/2010	-0.11	465	-0.02	396	-0.14	243	-0.14	187	-0.10	395	-0.11	263	-0.17	303	-0.17	292	-0.17	227	-0.02	413	-0.05	368	-0.08	398
9/24/2010	-0.11	448	-0.02	451	-0.12	249	-0.11	189	-0.08	405	-0.08	458	-0.13	361	-0.14	183	-0.15	210	-0.04	367	-0.07	358	-0.08	370
10/26/2010	-0.11	485	-0.02	392	-0.11	294	-0.05	160	-0.04	490	-0.08	549	-0.11	410	-0.11	306	-0.14	236	-0.02	335	-0.05	341	-0.05	391
11/29/2010	-0.08	432	-0.01	290	-0.05	330	-0.05	273	-0.02	405	-0.05	392	-0.05	395	-0.09	358	-0.08	269	-0.01	274	-0.04	338	-0.05	363
12/13/2010	-0.05	454	-0.02	292	-0.06	380	-0.02	317	-0.04	404	-0.04	509	-0.04	511	-0.05	348	-0.08	311	-0.02	282	-0.04	278	-0.02	338
3/17/2011	-0.08	480	-0.02	315	-0.05	383	-0.05	327	-0.05	489	-0.05	580	-0.05	576	-0.08	362	-0.11	334	-0.02	306	-0.04	306	-0.05	240
5/19/2011	-0.08	442	-0.02	350	-0.05	314	-0.08	235	-0.05	476	-0.08	575	-0.08	505	-0.08	344	-0.14	270	-0.02	353	-0.05	360	-0.08	394
8/17/2011	-0.08	467	-0.02	357	-0.08	262	-0.11	202	-0.05	466	-0.05	582	-0.11	430	-0.14	294	-0.11	266	-0.05	375	-0.05	354	-0.08	352
11/29/2011	-0.05	396	-0.02	323	-0.02	388	-0.01	326	-0.02	432	-0.05	511	-0.01	514	-0.01	384	-0.10	330	-0.02	259	-0.02	303	-0.05	340
3/23/2012	-0.08	437	-0.02	305	-0.05	377	-0.05	295	-0.05	436	-0.02	555	-0.02	520	-0.08	354	-0.08	331	-0.02	307	-0.02	323	-0.05	331
6/4/2012	-0.05	437	-0.05	342	-0.05	365	-0.07	282	-0.05	419	-0.05	511	-0.06	468	-0.08	361	-0.08	292	-0.02	363	-0.05	335	-0.08	332
9/6/2012	-0.05	440	-0.02	325	-0.05	343	-0.05	309	-0.02	420	-0.02	567	-0.05	446	-0.05	354	-0.08	280	-0.02	375	-0.02	340	-0.05	265
11/29/2012	-0.04	420	-0.02	324	-0.04	389	-0.04	340	-0.02	411	-0.02	518	-0.02	488	-0.04	410	-0.04	332	-0.02	332	-0.04	300	-0.04	342
3/7/2013	-0.04	434	-0.01	304	-0.02	390	-0.02	348	-0.02	394	-0.02	520	-0.02	494	-0.02	423	-0.04	353		275	-0.02	280	-0.02	328
5/30/2013	-0.05	385	-0.02	320	-0.02	330	-0.02	285	-0.02	370	-0.02	539	-0.05	70	-0.08	382	-0.03	298	-0.02	309	-0.02	285	-0.05	335
9/13/2013	-0.05	397	-0.01	286	-0.02	249	-0.02	280	-0.02	374	-0.02	472	-0.05	433	-0.08	332	-0.07	281	-0.02	300	-0.02	292	-0.05	300

*=Possible problem w/ magnehelic

Notes:

(1) Valves at Manifolds for Alignment A, D, E, J, F, G, and K were closed +/- 1/4 on March 26, 2010 in an effort to improve the negative pressure differential in the other Alignmnets

(2) Valves at Manifolds for Alignment A, D, E, J, F, and G, were closed an additional +/- 1/8 on March 30, 2010 in an effort to improve the negative pressure differential in the other Alignmnets

(3) Valve at Manifolds for Alignment H, was closed +/- 1/4 on March 30, 2010 in an effort to improve the negative pressure differential in the other Alignments.

At Blower Manifold

	BLOWER #1 - Vent Stack IDs											
	VS-A		VS-B		VS-C		VS-D		VS-E		VS-J	
Data Collection Date	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)
3/5/2010	-0.17	435	-0.15	350	-0.12	435	-0.1	225	-0.11	272	-0.17	352
3/18/2010	-0.2	498	-0.17	492	-0.17	323	-0.17	399	-0.17	345	-0.2	655
3/30/2010	-0.2	434	-0.2	420	-0.17	317	-0.17	218	-0.17	208	-0.2	420
4/28/2010	-0.2	480	-0.2	445	-0.2	230	-0.18	220	-0.18	234	-0.2	423
5/21/2010	-0.2	496	-0.23	466	-0.23	282	-0.2	444	-0.2	259	-0.23	440
6/24/2010	-0.19	370	-0.19	404	-0.19	172	-0.19	210	-0.21	171	-0.19	397
7/22/2010	-0.21	475	-0.21	390	-0.18	230	-0.18	205	-0.18	254	-0.21	420
8/26/2010	-0.17	423	-0.17	394	-0.17	202	-0.17	176	-0.11	308	-0.17	427
9/24/2010	-0.15	388	-0.13	351	-0.14	241	-0.14	165	-0.14	270	-0.12	441
10/26/2010	-0.17	408	-0.17	406	-0.17	276	-0.15	208	-0.12	372	-0.17	497
11/29/2010	-0.11	412	-0.09	286	-0.09	340	-0.08	300	-0.08	440	-0.12	435
12/13/2010	-0.13	454	-0.09	300	-0.06	340	-0.1	316	-0.08	365	-0.09	469
3/17/2011	-0.08	352	-0.08	314	-0.08	372	-0.08	331	-0.05	430	-0.08	501
5/19/2011	-0.14	378	-0.11	360	-0.08	294	-0.11	208	-0.08	518	-0.11	485
8/17/2011	-0.14	388	-0.11	366	-0.11	263	-0.11	206	-0.08	455	-0.11	451
11/29/2011	-0.08	354	-0.11	296	-0.06	381	-0.06	329	-0.05	436	-0.08	469
3/23/2012	-0.11	370	-0.11	283	-0.08	320	-0.08	271	-0.05	335	-0.08	468
6/4/2012	-0.09	333	-0.09	283	-0.09	252	-0.09	237	-0.06	342	-0.09	468
9/6/2012	-0.08	316	-0.11	258	-0.08	230	-0.07	245	-0.07	310	-0.08	429
11/29/2012	-0.07	398	-0.08	282	-0.08	326	-0.04	298	-0.04	270	-0.09	587
3/7/2013	-0.08	435	-0.08	298	-0.08	357	-0.05	345	-0.05	216	-0.08	458
5/30/2013	-0.08	370	-0.05	306	-0.05	303	-0.05	293	-0.02	368	-0.08	442
9/13/2013	-0.08	323	-0.07	290	-0.07	292	-0.07	315	-0.04	361	-0.07	385

	BLOWER #2 - Vent Stack IDs											
	VS-F		VS-G		VS-H		VS-I		VS-K		VS-L	
Data Collection Date	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)	Differental Pressure (kPa)	Velocity (fpm)
3/5/2010	-0.14	511	-0.17	330	-0.17	260	-0.11	315	-0.11	328	-0.11	490
3/18/2010	-0.2	571	-0.23	474	-0.18	480	-0.17	512	-0.17	436	-0.17	490
3/30/2010	-0.17	221	-0.2	302	-0.23	210	-0.17	395	-0.17	370	-0.17	329
4/28/2010	-0.18	230	-0.19	250	-0.19	184	-0.15	404	-0.15	438	-0.18	325
5/21/2010	-0.2	562	-0.23	353	-0.23	247	-0.2	548	-0.17	456	-0.2	662
6/24/2010	-0.21	239	-0.24	208	-0.24	182	-0.21	339	-0.21	328	-0.21	306
7/22/2010	-0.21	280	-0.24	262	-0.24	210	-0.18	370	-0.18	410	-0.21	340
8/26/2010	-0.2	282	-0.23	227	-0.23	165	-0.2	407	-0.17	387	-0.2	302
9/24/2010	-0.18	326	-0.19	256	-0.19	169	-0.15	379	-0.15	388	-0.15	289
10/26/2010	-0.14	388	-0.19	290	-0.19	176	-0.15	331	-0.15	315	-0.18	370
11/29/2010	-0.11	478	-0.15	333	-0.15	288	-0.13	345	-0.09	358	-0.13	361
12/13/2010	-0.09	535	-0.15	339	-0.15	292	-0.11	298	-0.09	339	-0.12	289
3/17/2011	-0.11	518	-0.14	370	-0.14	312	-0.12	352	-0.14	354	-0.15	318
5/19/2011	-0.11	490	-0.17	293	-0.17	267	-0.14	385	-0.14	442	-0.17	351
8/17/2011	-0.17	412	-0.2	270	-0.2	271	-0.17	376	-0.17	392	-0.17	342
11/29/2011	-0.08	451	-0.16	323	-0.16	328	-0.1	285	-0.1	342	-0.1	270
3/23/2012	-0.08	557	-0.12	367	-0.14	344	-0.11	285	-0.1	362	-0.1	362
6/4/2012	-0.12	388	-0.18	273	-0.15	278	-0.12	314	-0.12	339	-0.15	252
9/6/2012	-0.11	338	-0.17	255	-0.17	243	-0.11	300	-0.11	320	-0.11	235
11/29/2012	-0.07	403	-0.11	320	-0.12	253	-0.07	315	-0.1	322	-0.12	246
3/7/2013	-0.08	456	-0.09	376	-0.09	389	-0.08	275	-0.08	342	-0.08	284
5/30/2013	-0.07	450	-0.14	320	-0.14	310	-0.07	298	-0.07	328	-0.10	295
9/13/2013	-0.11	378	-0.17	308	-0.17	292	-0.11	310	-0.11	317	-0.11	287

Notes:

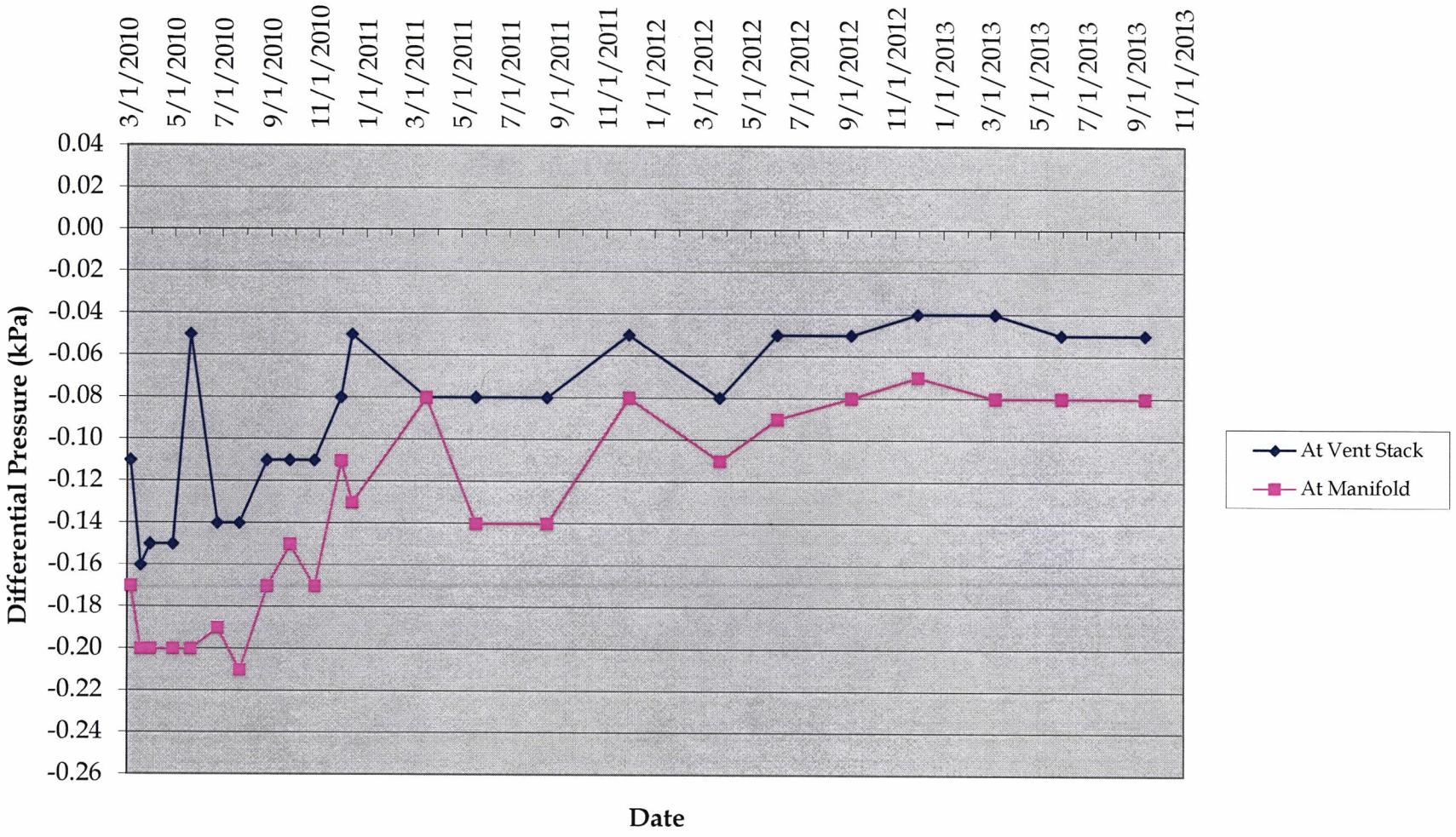
(1) Valves at Manifolds for Alignment A, D, E, J, F, G, and K were closed +/- 1/4 on March 26, 2010 in an effort to improve the negative pressure differential in the other Alignmnets

(2) Valves at Manifolds for Alignment A, D, E, J, F, and G, were closed an additional +/- 1/8 on March 30, 2010 in an effort to improve the negative pressure differential in the other Alignmnets

(3) Valve at Manifolds for Alignment H, was closed +/- 1/4 on March 30, 2010 in an effort to improve the negative pressure differential in the other Alignments.

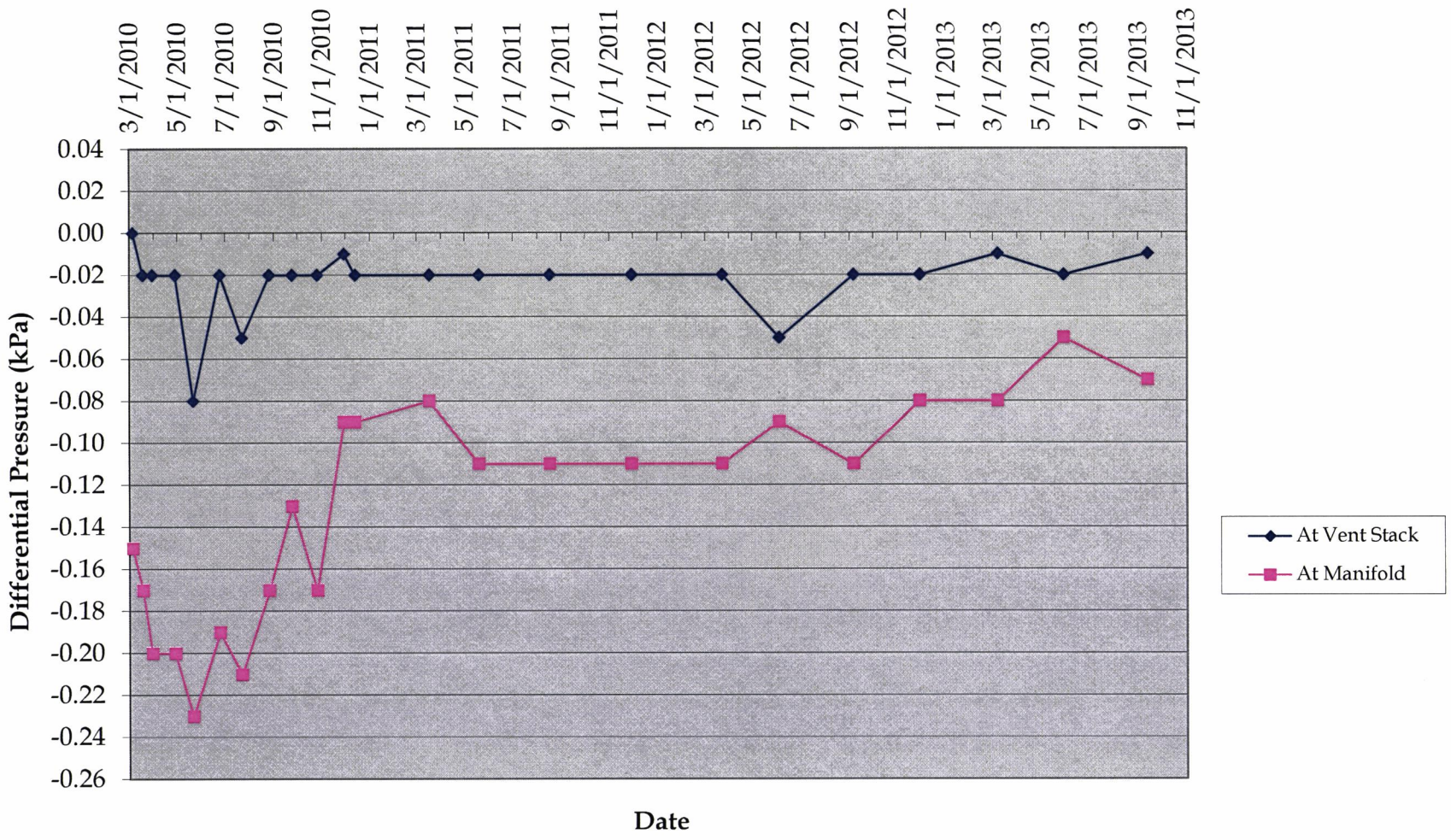
Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-A



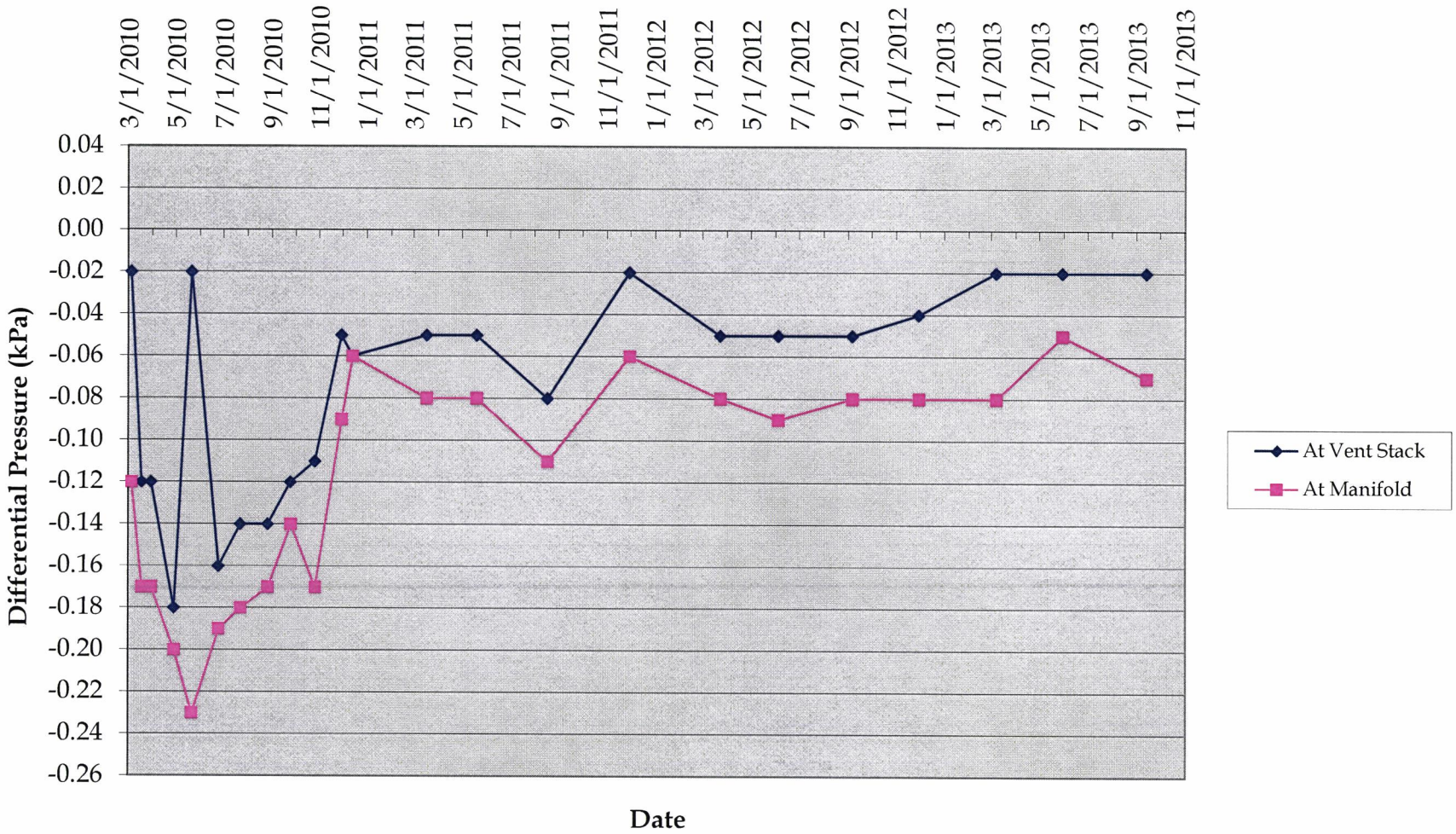
Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-B



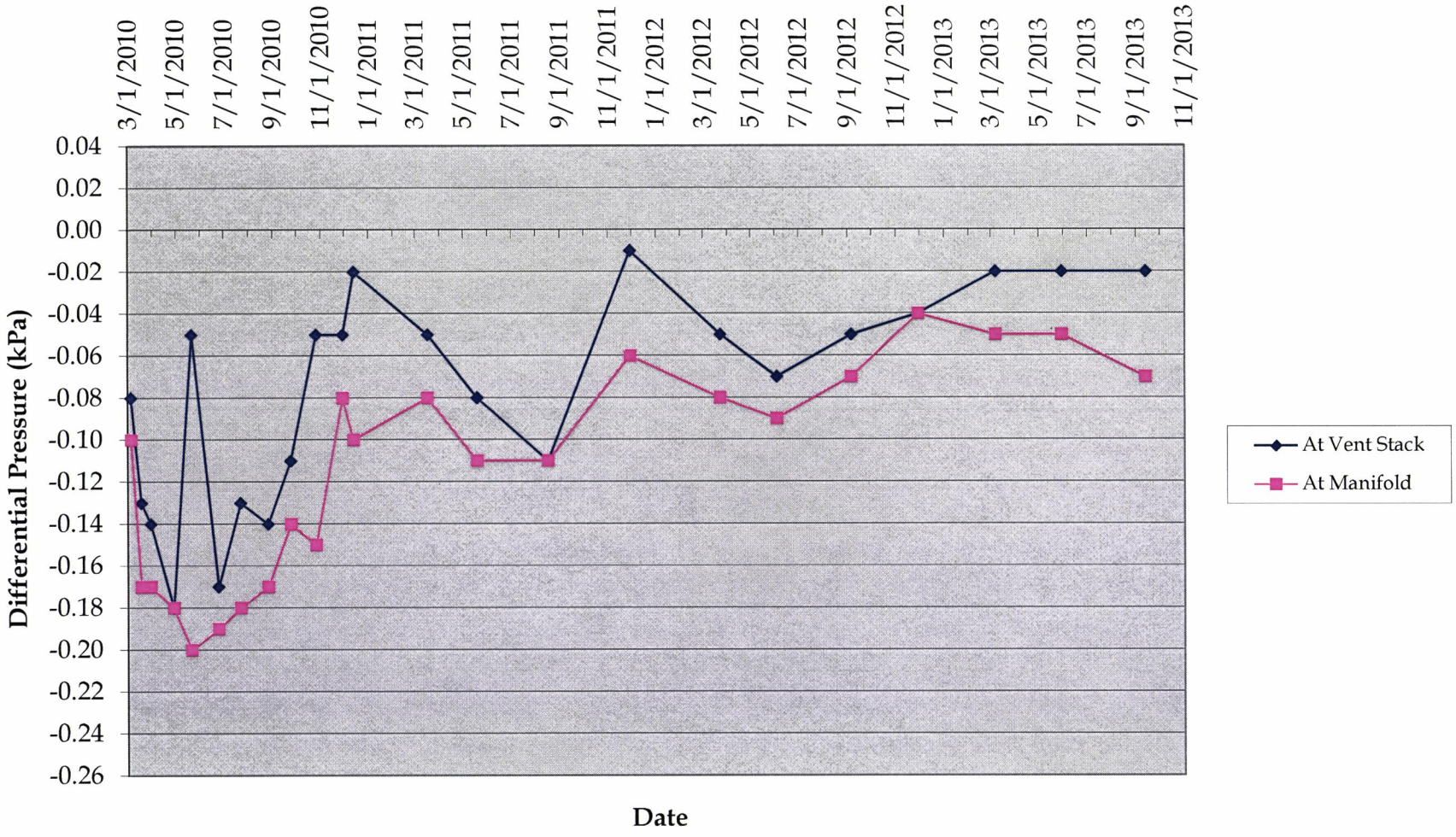
Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-C



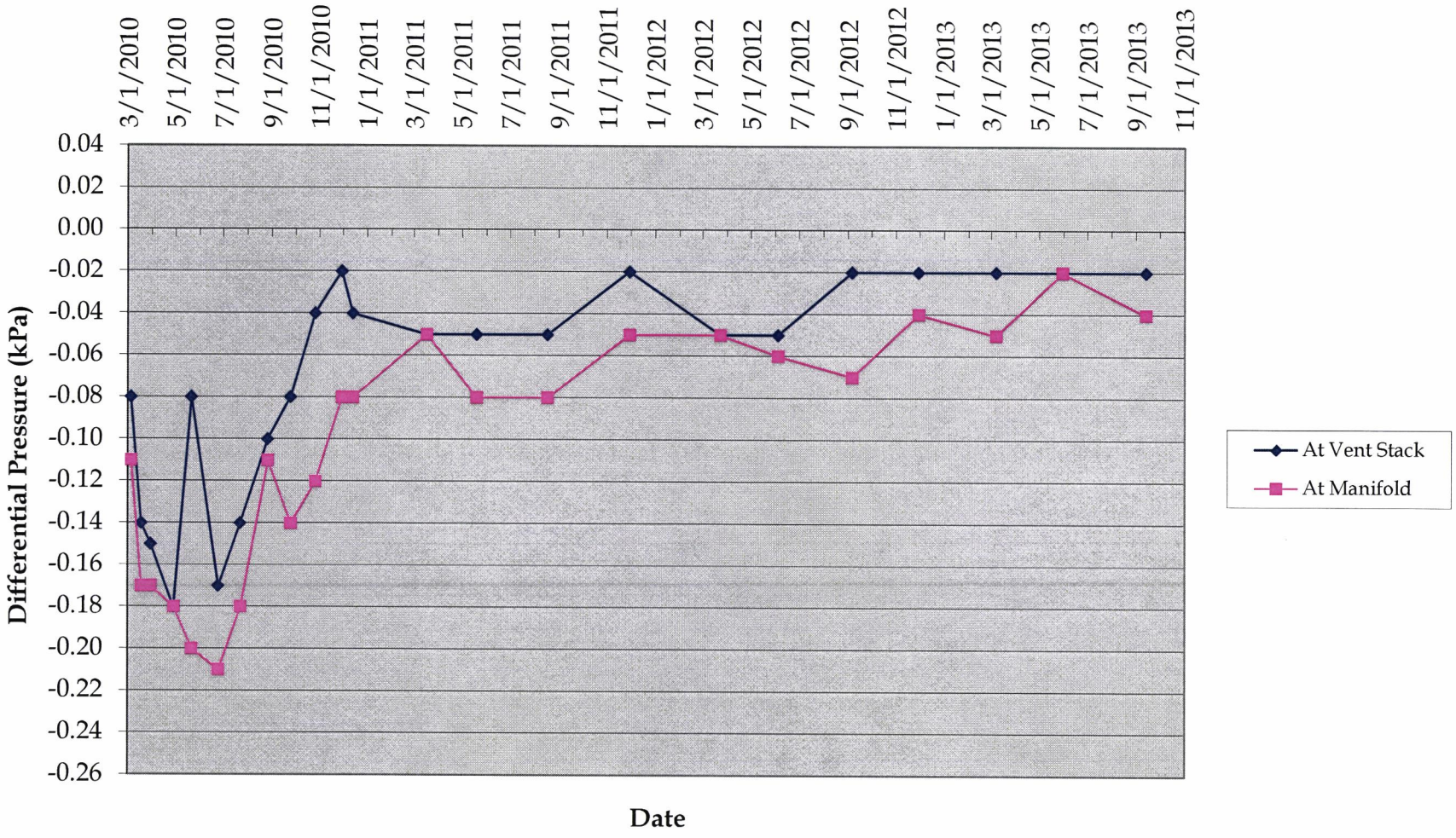
Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-D



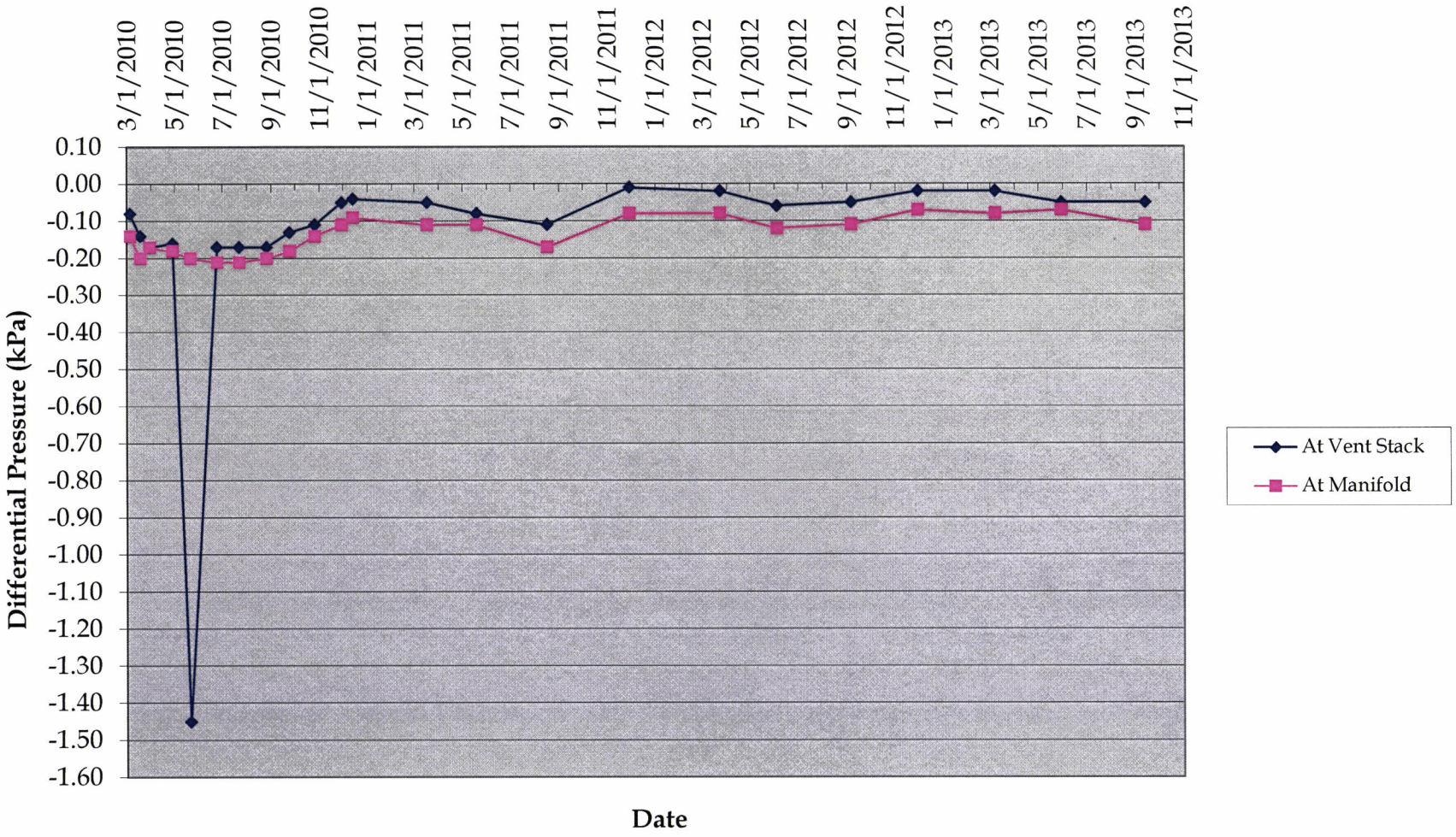
Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-E



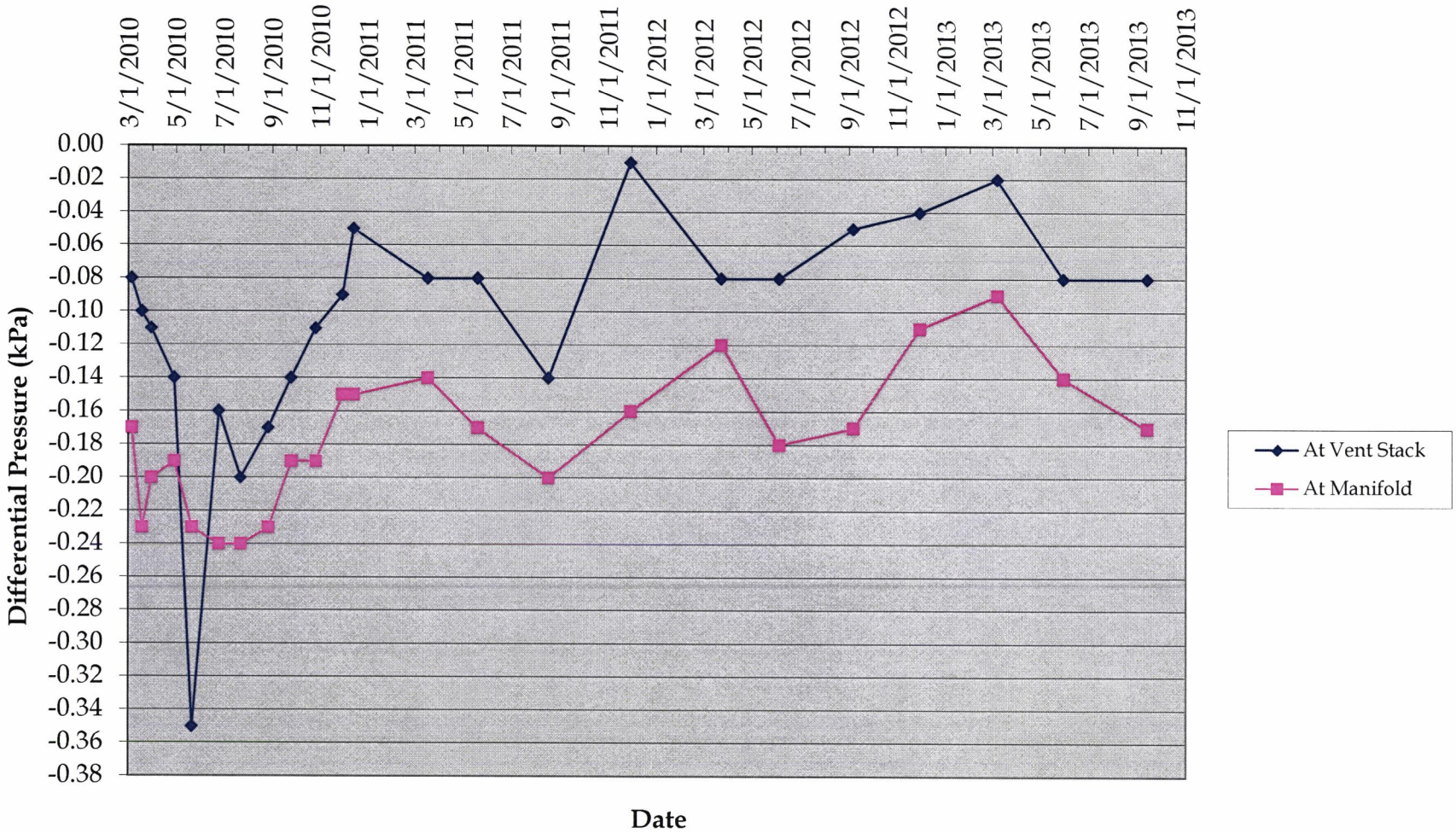
Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-F



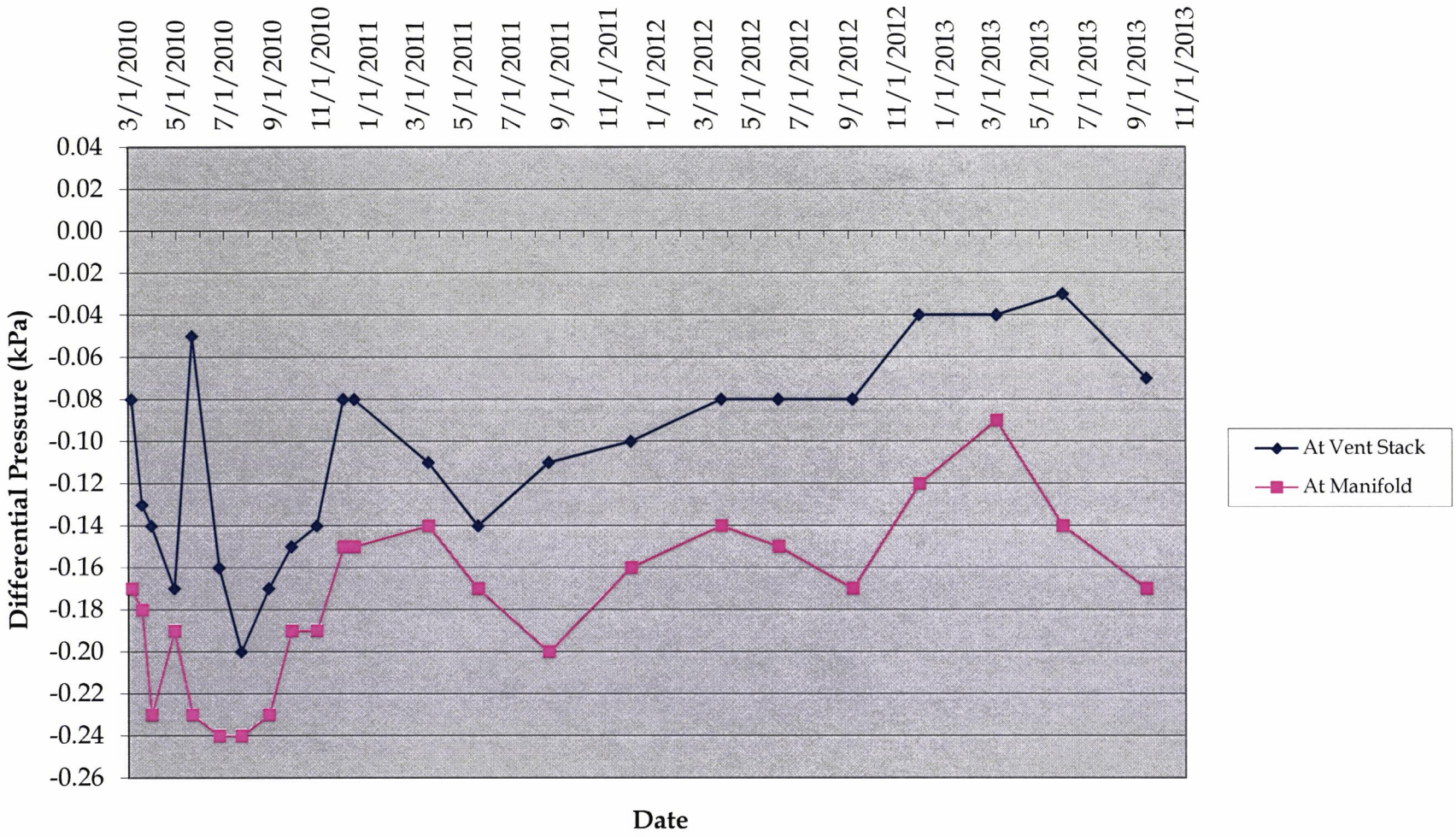
Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-G



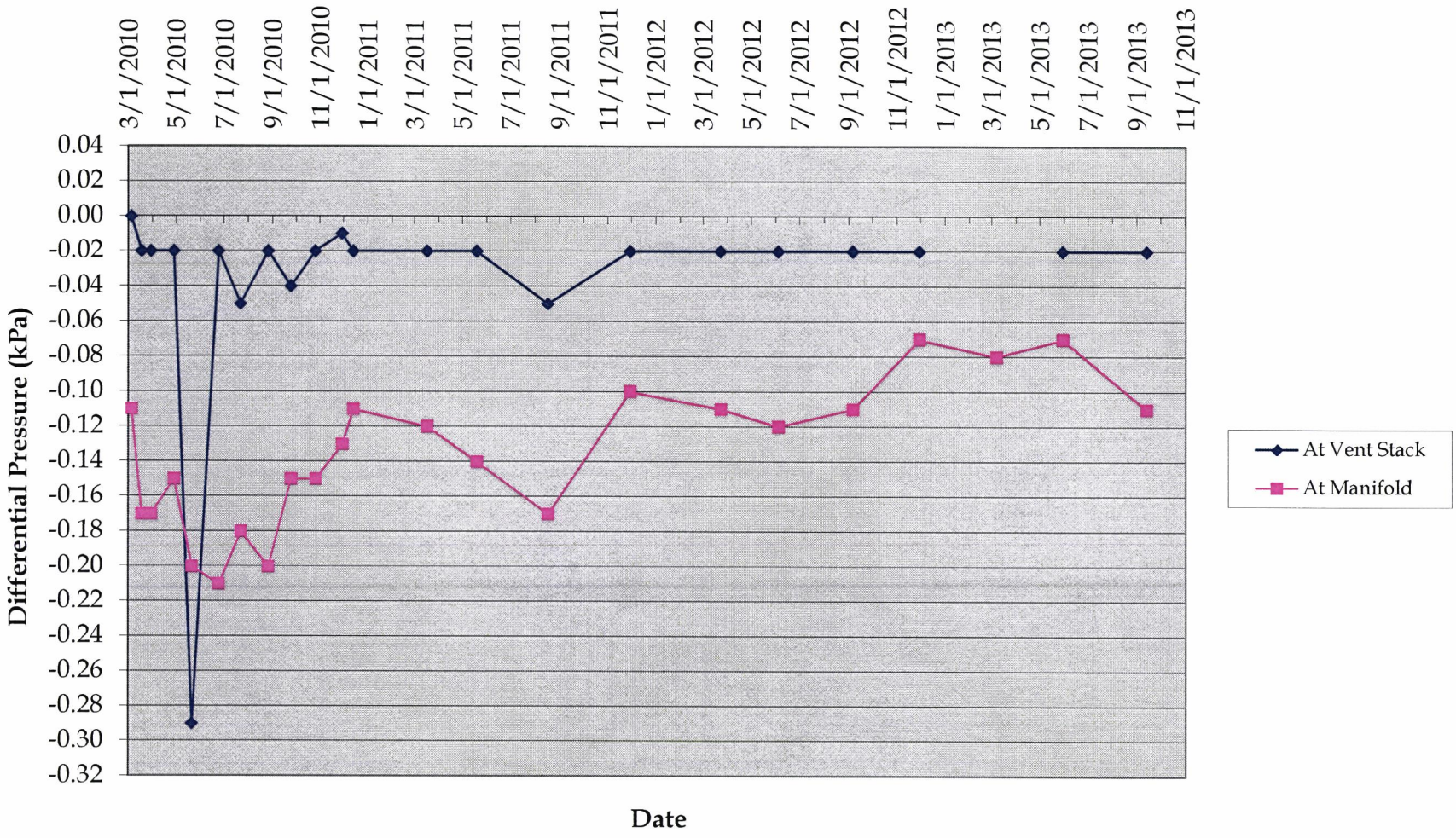
Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-H



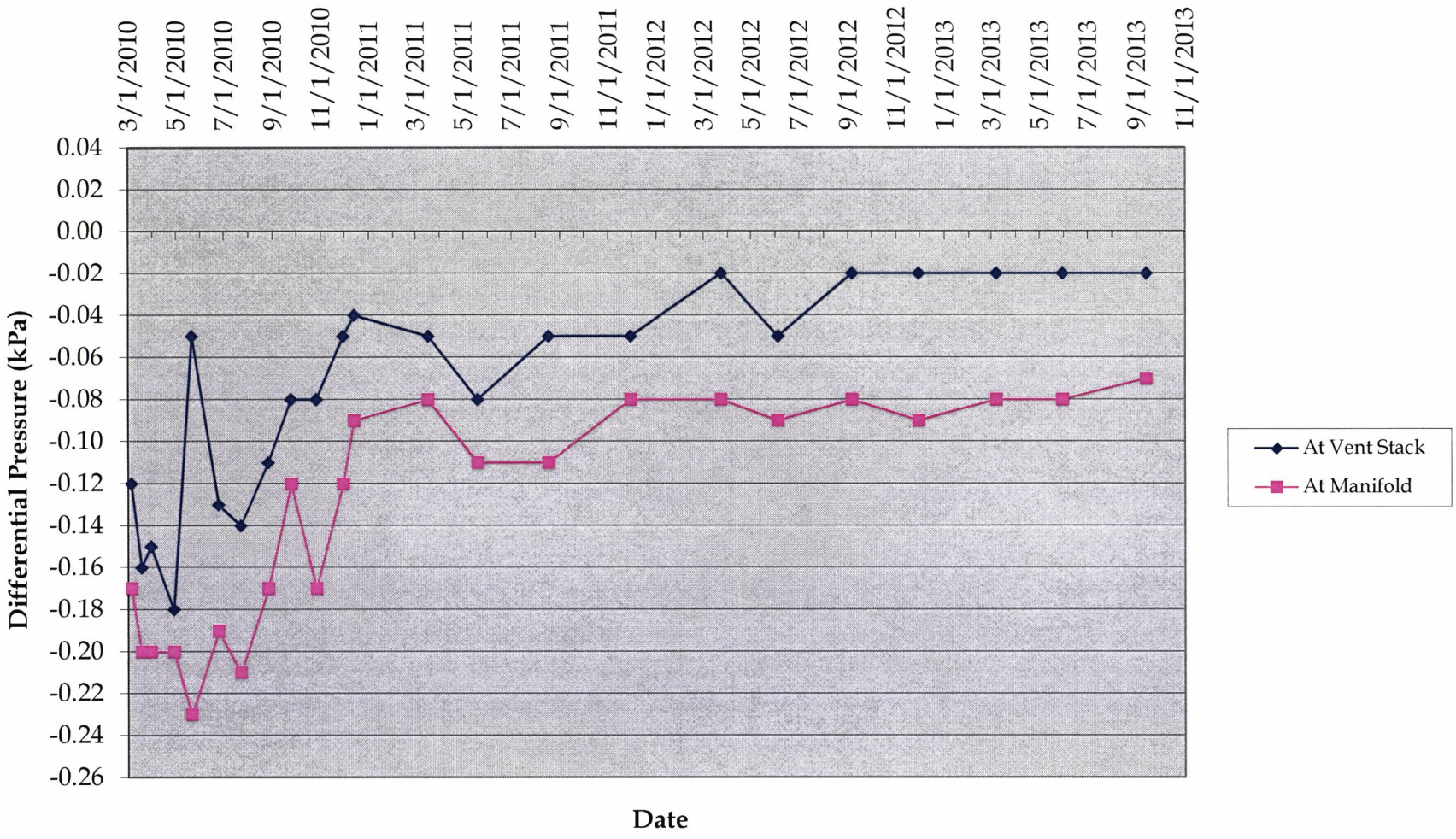
Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-I



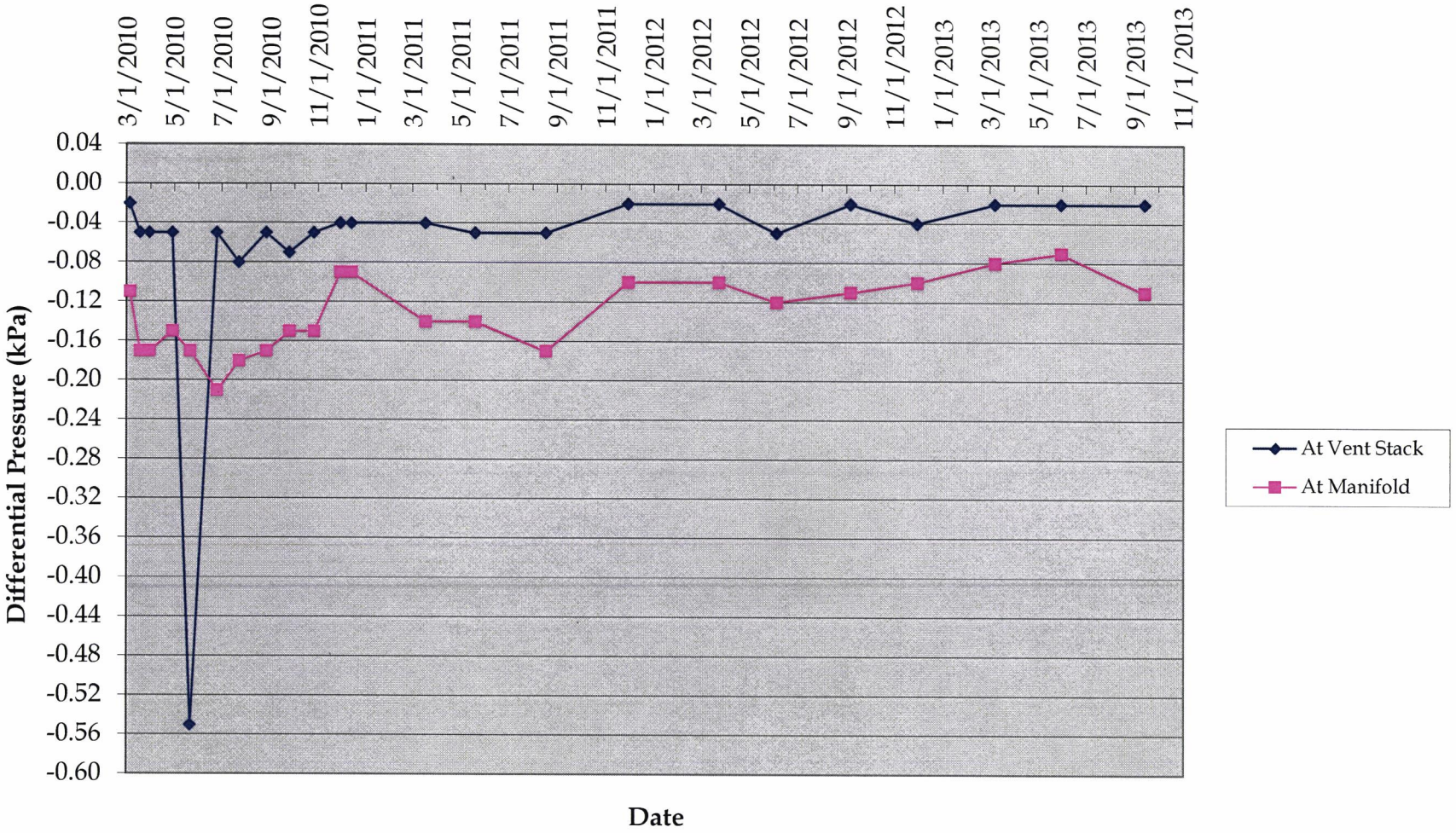
Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-J



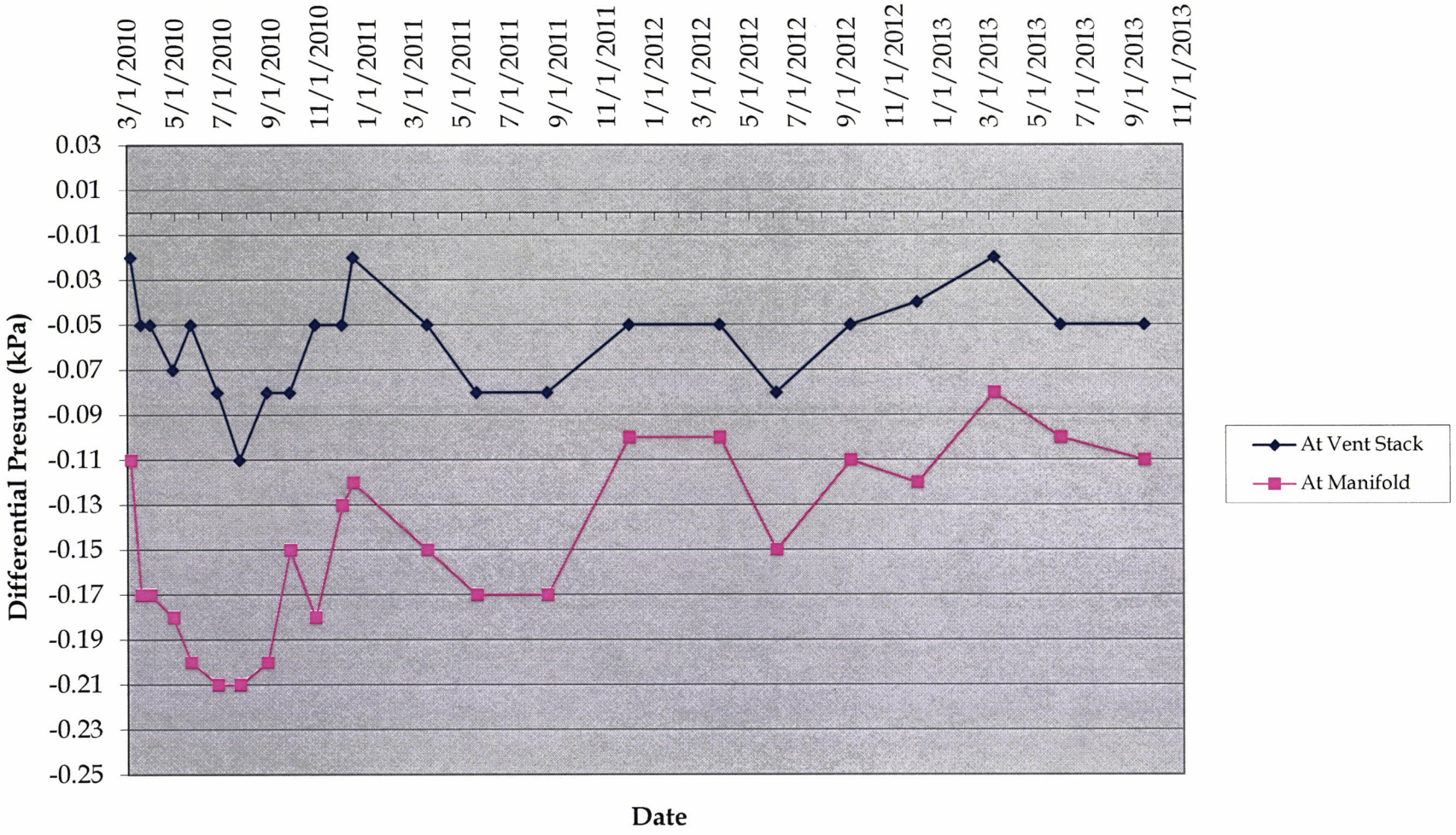
Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-K



Former SECO Products Facility-Washington, MO
SSDS Vent Stack Performance Monitoring Data

VS-L



Sub-Slab Performance Monitoring Points	Baseline Differential Pressure Measurements (kPa) 2/26/2010	Differental Pressure (kPa) 3/18/2010	3/26/2010	4/28/2010	5/21/2010	6/24/2010	7/22/2010	8/26/2010	9/24/2010	10/26/2010	11/29/2010	12/13/2010	3/17/2011	5/19/2011	8/17/2011	11/29/2011	3/23/2012	6/4/2012	9/6/2012	11/29/2012	3/7/2013	5/30/2013	9/13/2013
SSVP-1	0.00	-0.02		-0.02	-0.02	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.06	0.00	-0.02	0.00	0.00	0.00	0.00	0.00
SSVP-2	0.00	-0.02		-0.04										-0.02	-0.02		-0.02	-0.02	0.00	-0.02	0.00	0.00	-0.02
SSVP-3	0.00	0.00	0.00			0.00	0.00											0.00			0.00	0.00	0.00
SSVP-5	0.00	-0.02		-0.04	-0.02	-0.03	-0.02	-0.05	-0.02	0.00	0.00	0.00	0.00	0.00	-0.02	-0.16	0.00	-0.02	-0.04	0.00	0.00	0.00	0.00
SSVP-6	0.00	-0.02			0.00	-0.02	-0.04						-0.02	-0.02	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
SSVP-7	-0.02	-0.02		-0.02	-0.02	-0.02	-0.02	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	-0.02	-0.02	-0.02	0.00	0.00	0.00	-0.02
SSVP-8	0.00	-0.05		-0.11	-0.14	-0.14	-0.14				-0.02	-0.02	0.00	-0.08	-0.05	-0.02	-0.05	-0.02	-0.07	0.00	0.00	-0.02	-0.02
SSVP-9	0.04	-0.02		0.00	-0.02	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02	0.00	0.00	-0.02	-0.02	-0.04	-0.02	0.00	0.00	0.00	0.00	0.00	0.00
SSVP-10	0.04	-0.13		-0.14	-0.17	-0.18	-0.14	-0.14	-0.11	-0.08	-0.02	-0.02	-0.02	-0.08	-0.08	-0.06	-0.02	-0.05	-0.05	-0.02	0.00	-0.02	-0.02
SSVP-11	0.00	-0.09					-0.14	-0.11		-0.08	0.00	-0.02	-0.05	-0.08		0.00	-0.05	-0.05		0.00	0.00	-0.02	-0.05
SSVP-12	0.00	-0.04					0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	-0.02	0.00
SSVP-13	0.00	0.00	0.00	-0.02	-0.05	-0.09	-0.14	-0.14	-0.11	-0.05	-0.08	-0.02	-0.02	-0.05	-0.02	-0.05	-0.05	-0.05	-0.05	-0.02	0.00	-0.05	-0.04
SSVP-14	-0.26	0.00	-0.02				-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSVP-100-R (3)	0.04	-0.02		-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	0.00	0.00	0.00	0.00	-0.02	-	0.00		-0.02	0.00	0.00	-0.02	0.00
SSVP-101	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSVP-102	0.02	0.00	0.00	0.00	0.00	-0.02	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00
SSVP-103	0.00	0.00	-0.02	-0.02	-0.05	-0.05	-0.05	-0.07	-0.05	-0.02	-0.02	0.00	-0.02	-0.02	-0.05	-0.02	-0.02	-0.02	-0.02	-0.02	0.00	-0.02	-0.02
SSVP-104	0.00	-0.02		-0.02	-0.02	-0.05	-0.05	-0.02	-0.05	-0.02	0.00	0.00	0.00	-0.02	-0.05	-0.20	-0.02	-0.02	0.00	0.00	0.00	0.00	-0.02
SSVP-105	0.00	-0.04		-0.05		-0.08	-0.04	-0.05	-0.05	-0.05	-0.02	0.00	0.00	-0.02	-0.02	-0.02	-0.04	-0.02	-0.05	0.00	0.00	-0.05	-0.02
SSVP-106	0.00	0.00	0.00	0.00	-0.02	-0.02	-0.02	0.00	-0.02	-0.02	-0.02	0.00	0.00	0.00	-0.02	0.00	-0.02	-0.02	0.00	0.00	0.00	0.00	-0.02
SSVP-107	0.00	0.00	0.00	0.00	0.00	-0.02	-0.03	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		-0.02	0.00
SSVP-108	-0.02	-0.02		-0.05	-0.02	-0.08	-0.06	-0.05	-0.02	-0.02	-0.02	0.00	-0.02			0.00					-0.02	0.00	-0.04
SSVP-109	0.00	0.00	0.00	0.00	-0.02	-0.02		-0.02	0.00	0.00	-0.02	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00
SSVP-110	0.00	-0.04		-0.05	-0.08	-0.11	-0.11		-0.08		0.00	0.00	-0.04	-0.05	-0.11	-0.02	-0.02	-0.02		-0.04	-0.02	-0.02	-0.05
SSVP-111	0.00	-0.04		-0.07	-0.05	-0.09	-0.05	-0.05	-0.05	-0.05	-0.02	-0.02	-0.02	-0.02	-0.05	-0.02	-0.02	-0.02	-0.02	-0.04	-0.02	0.00	-0.02
SSVP-112	0.00	-0.05		-0.05	-0.08	-0.09	-0.08					0.00	-0.02	-0.05	-0.08	0.00	-0.02	0.00	0.00	0.00	0.00	-0.02	-0.02
SSVP-113	0.00	-0.02		-0.02	-0.02	-0.06	-0.05								-0.05	-0.02	-0.02	-0.02	-0.02		0.00	0.00	0.00
SSVP-114	0.00	-0.06		-0.15	-0.14	-0.18	-0.14	-0.08			-0.02	-0.02	-0.02	-0.05	-0.05	-0.02	-0.02		-0.05	-0.02	-0.02	-0.02	-0.04
SSVP-115	0.00	-0.04		-0.02	-0.08	-0.03	-0.02						0.00	-0.02	0.00	0.00	-0.04		-0.02	0.00	0.00	0.00	0.00

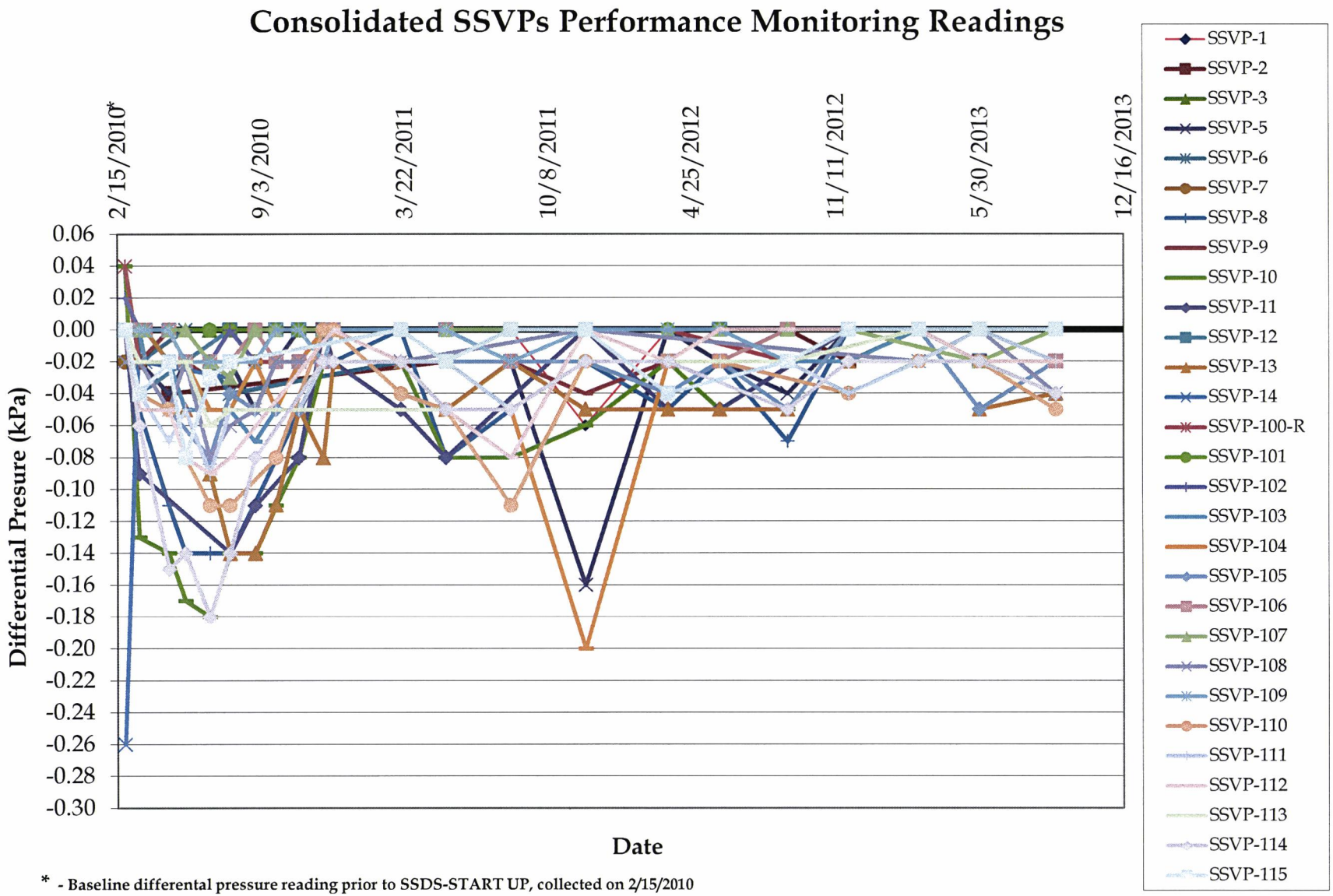
Notes:

(1) SSVP-3, 13, 14, 101, 102, 103, 106, 107, and 109 were checked for air-draw using non-thermal smoke on 3/30/2010. All showed air draw with non-thermal smoke except SSVP-3, 101, and 106.

(2) Blank spaced represent times when monitoring point was blocked by pallets of warehoused materials and no one from lesee was present on site to move pallets.

(3) SSVP-100 was replaced with SSVP-100-R on 3/26/2011

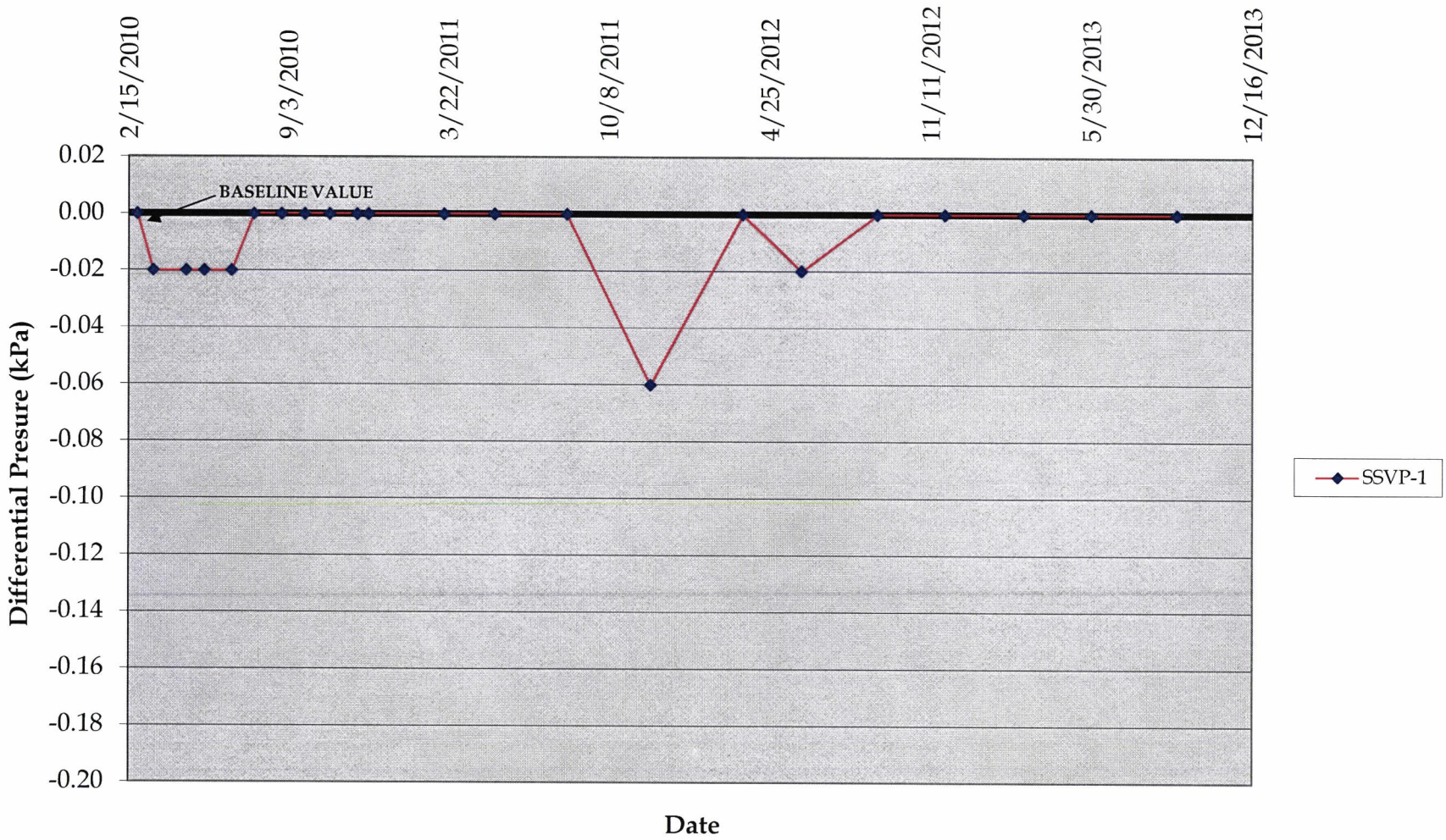
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data



* - Baseline differental pressure reading prior to SSDS-START UP, collected on 2/15/2010

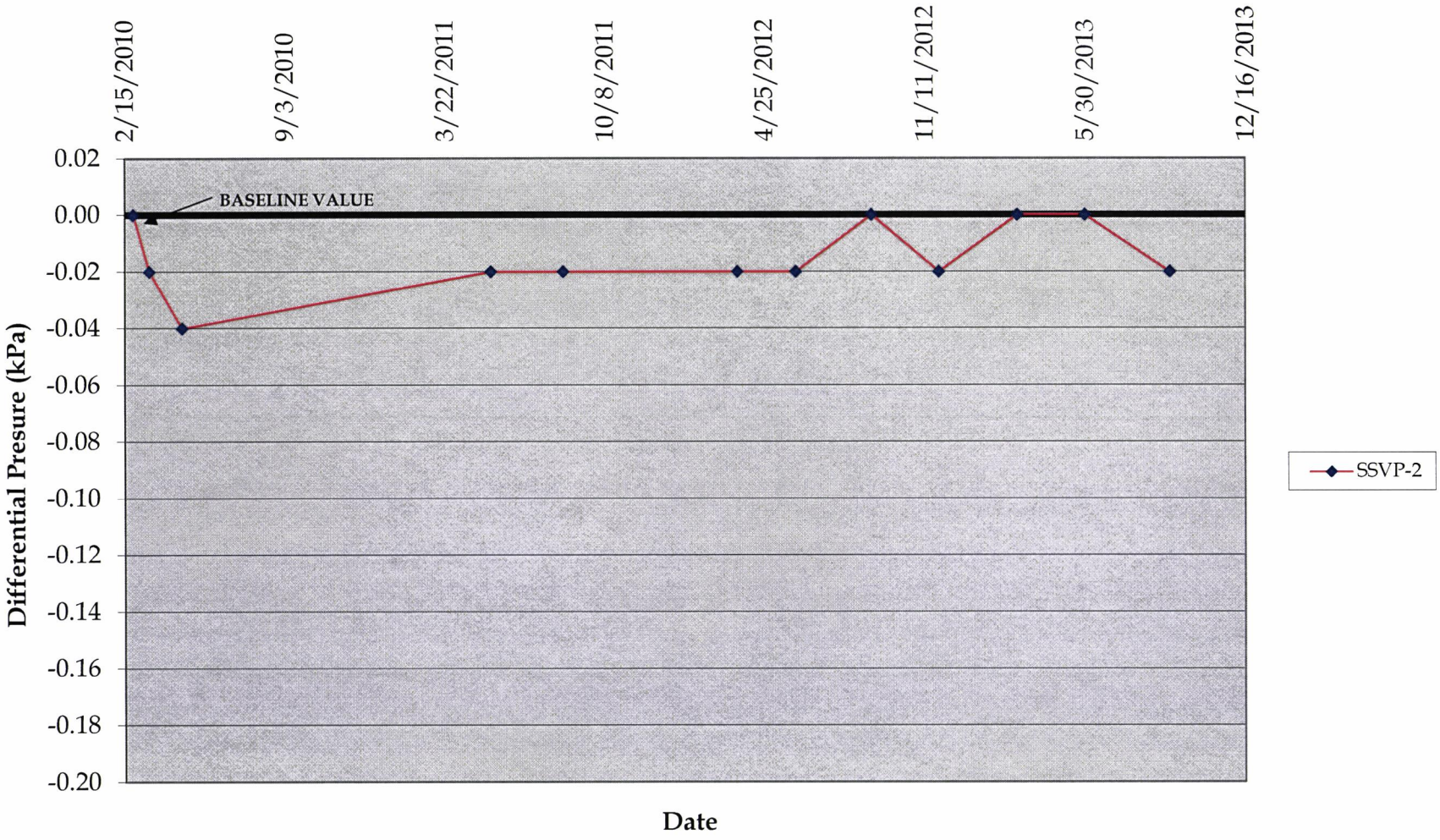
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-1



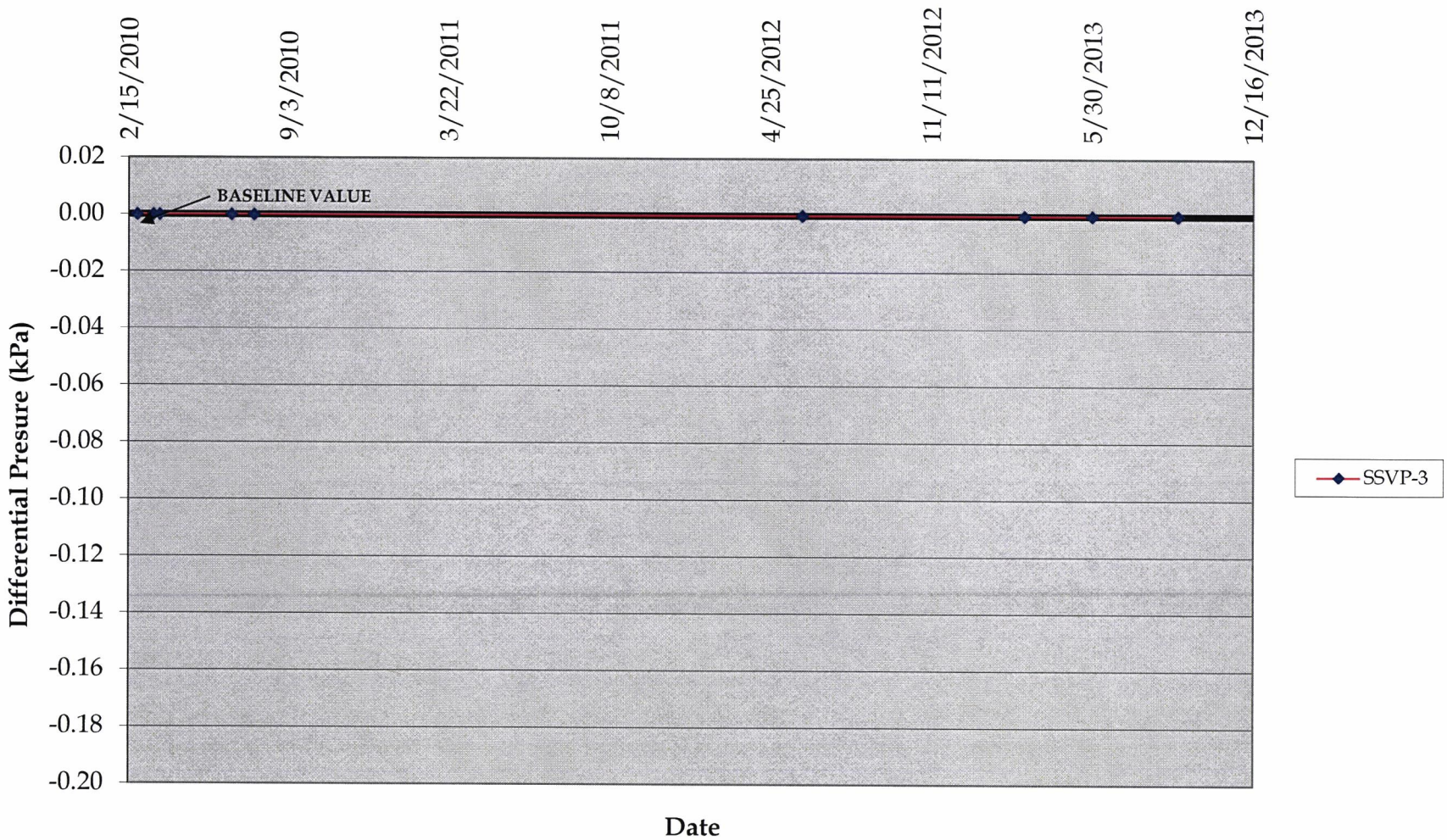
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-2



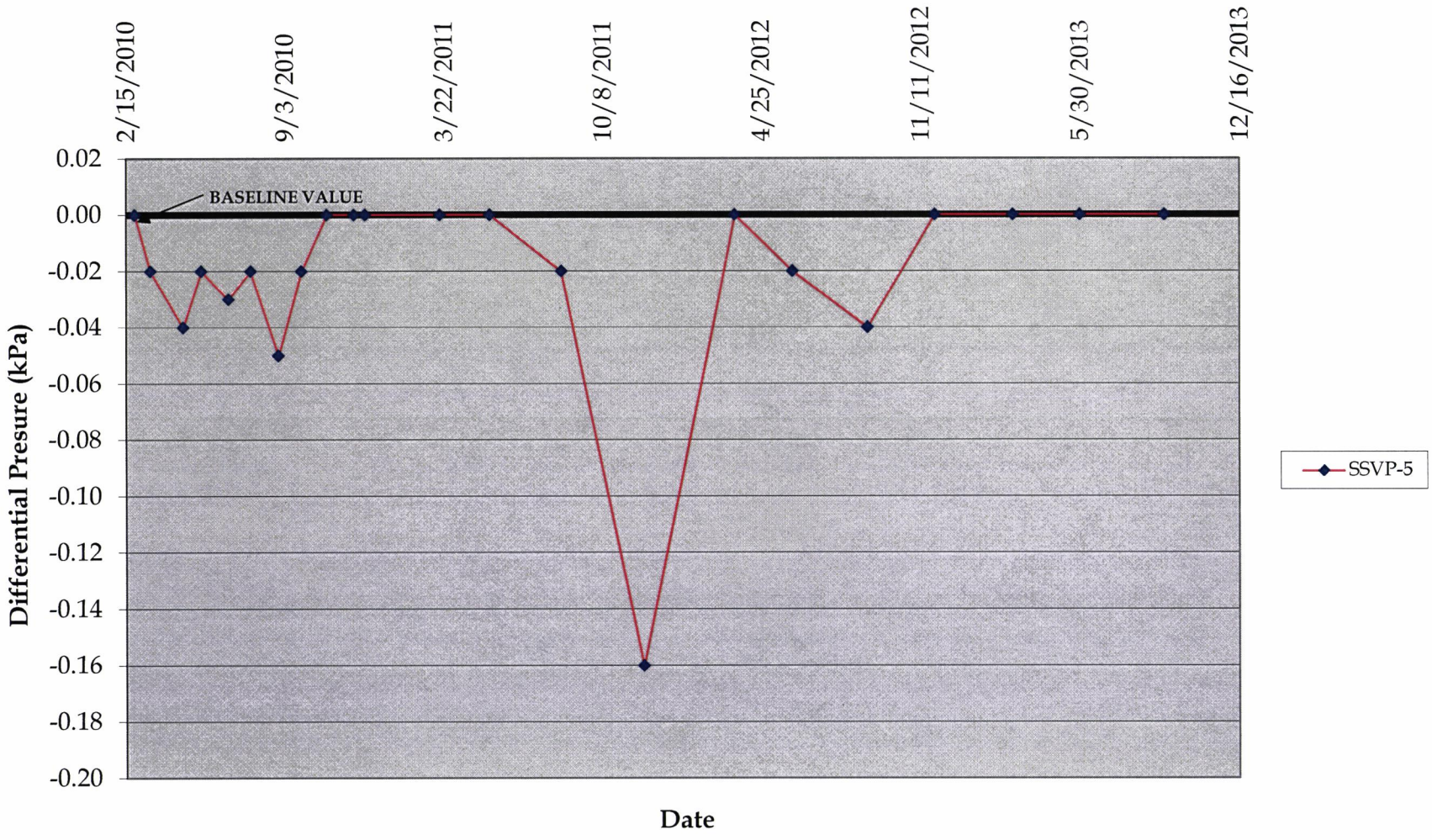
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-3



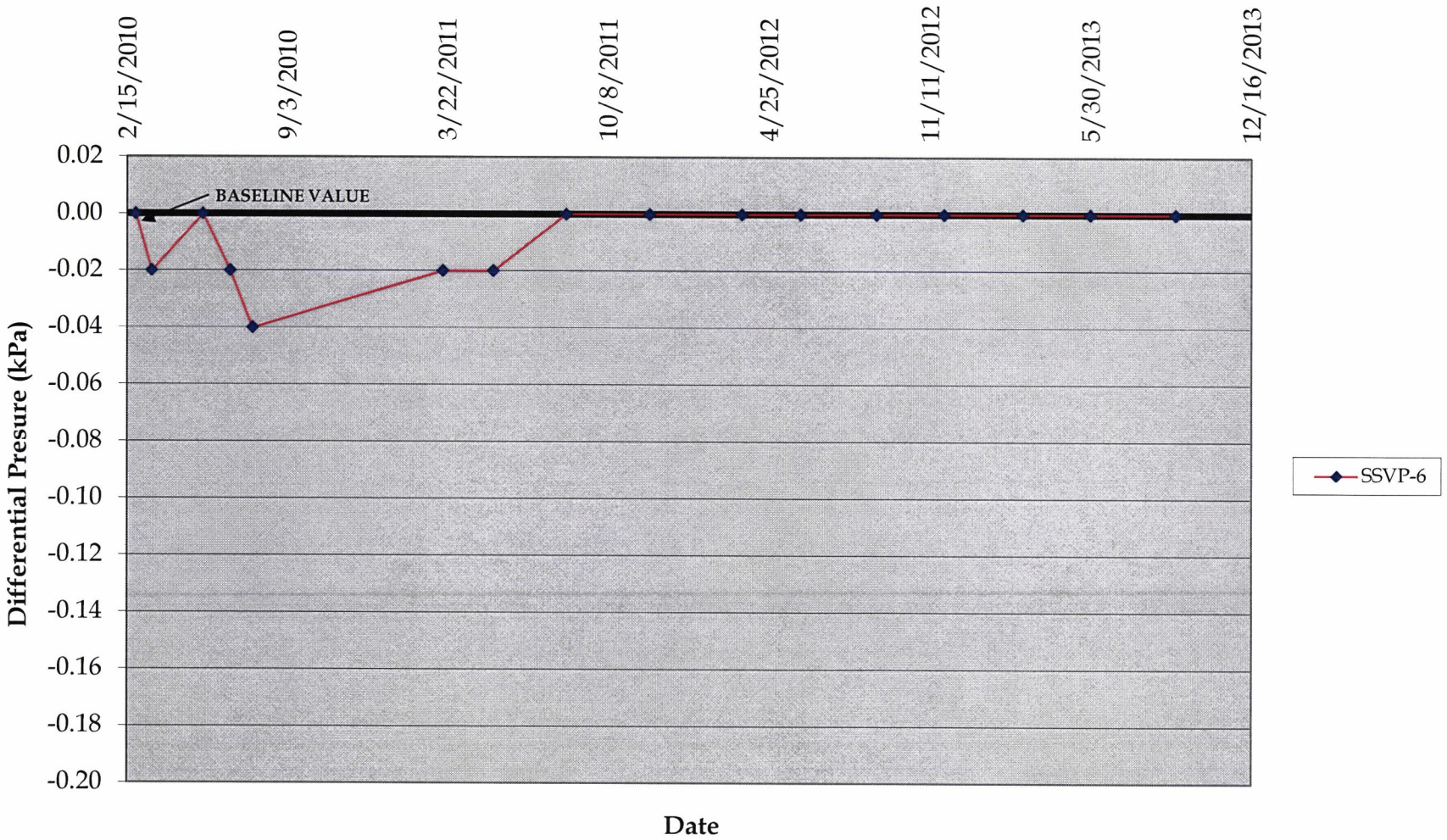
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-5



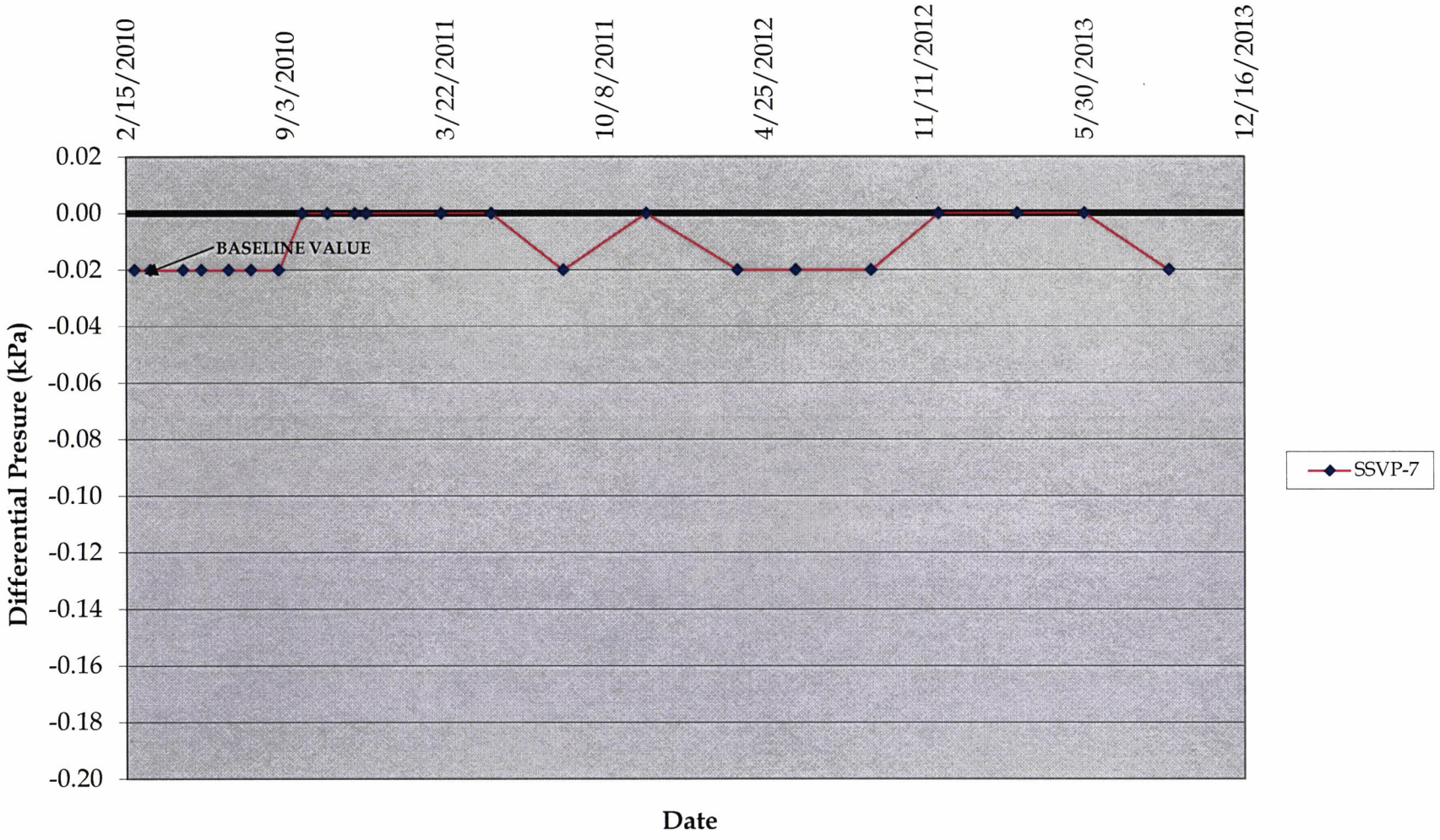
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-6



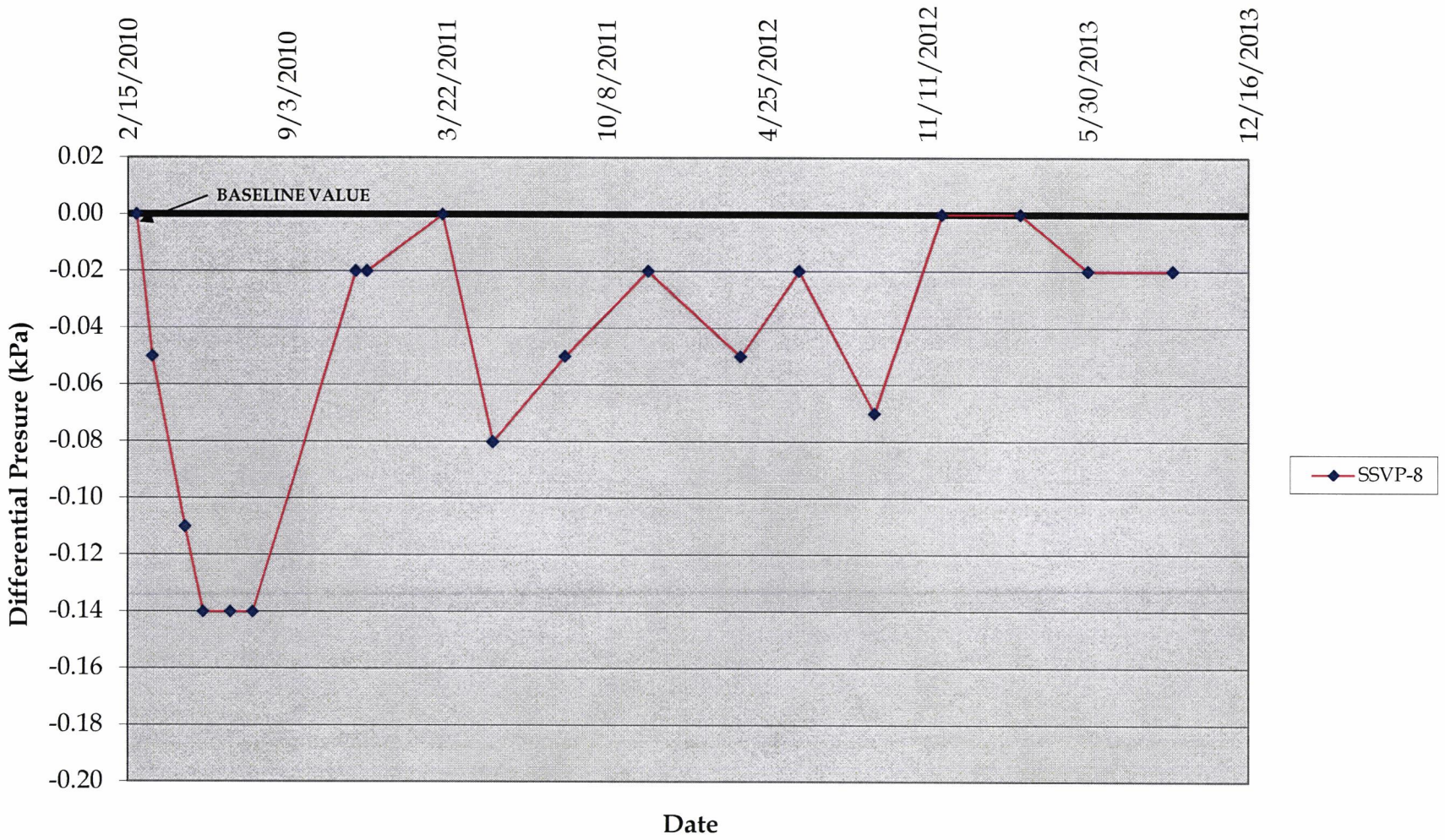
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-7

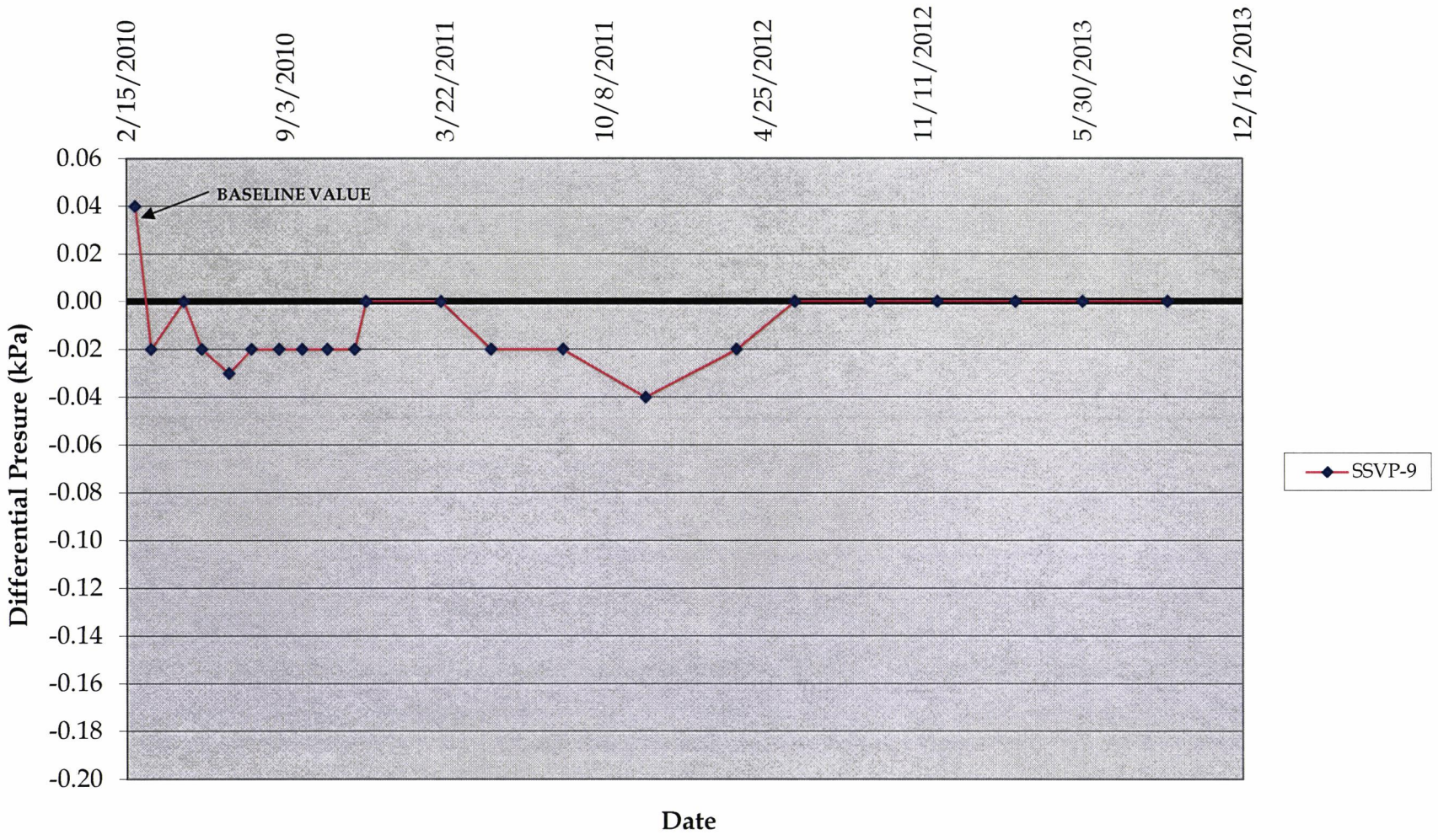


Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-8

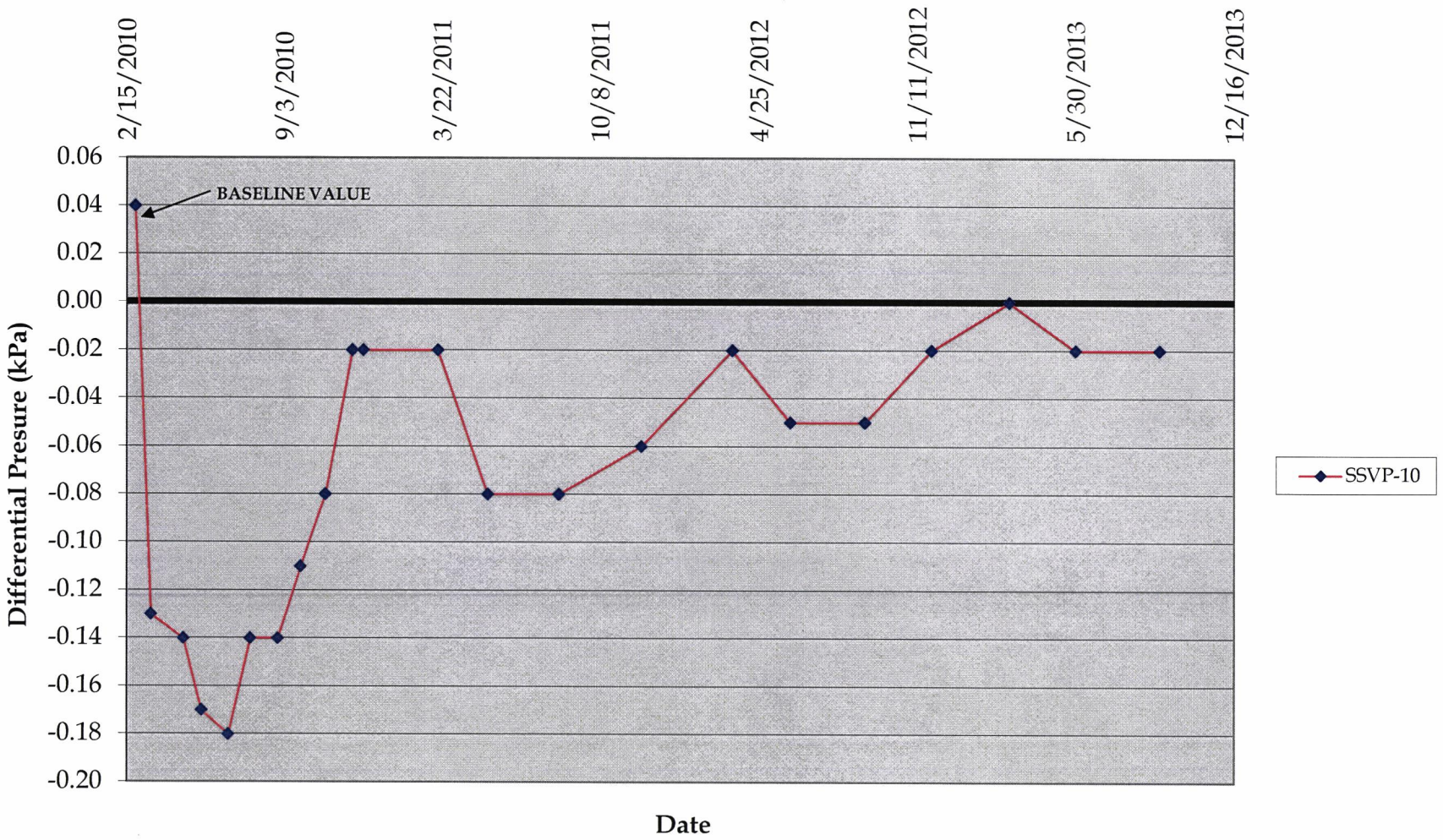


Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data



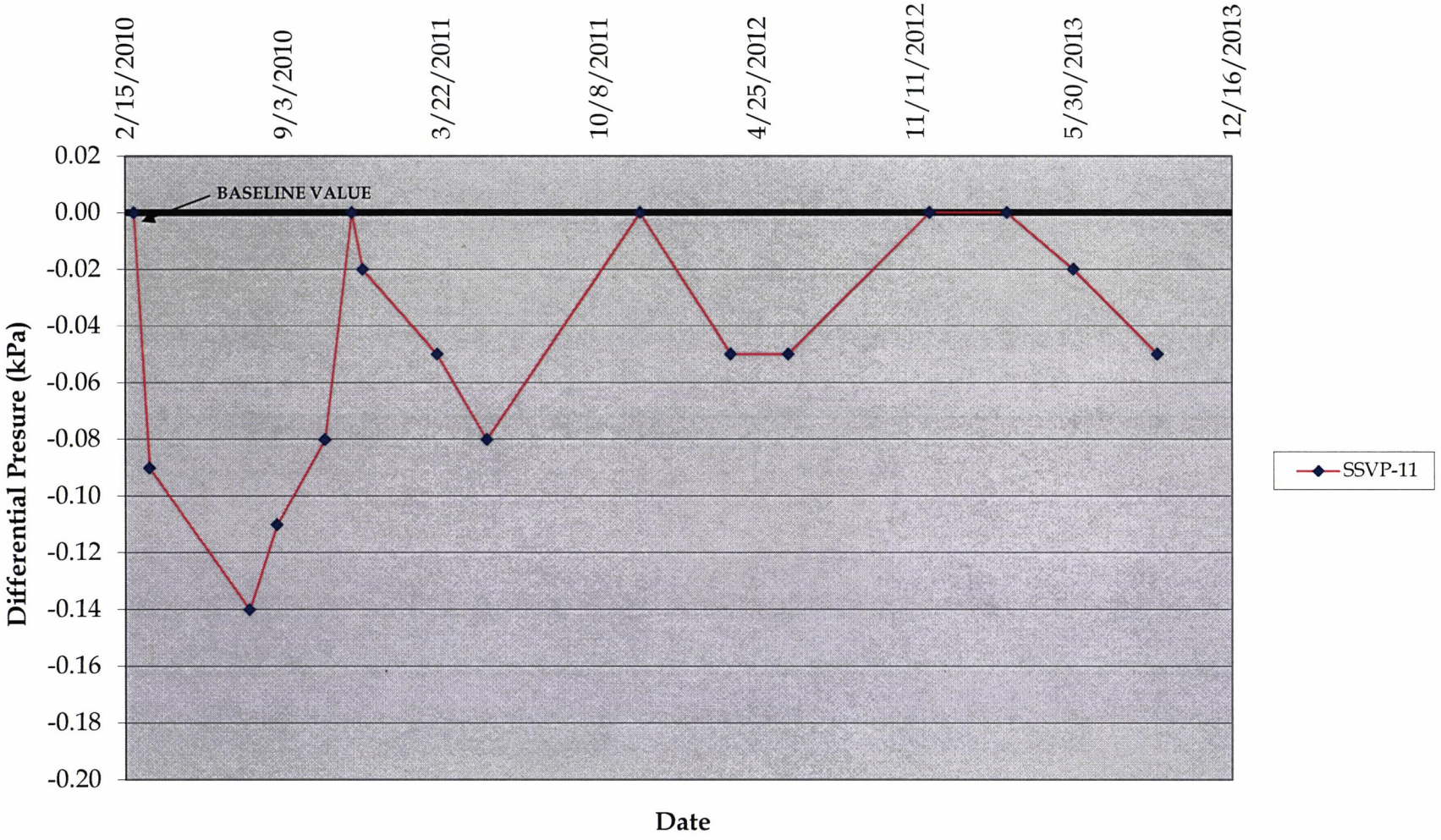
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-10



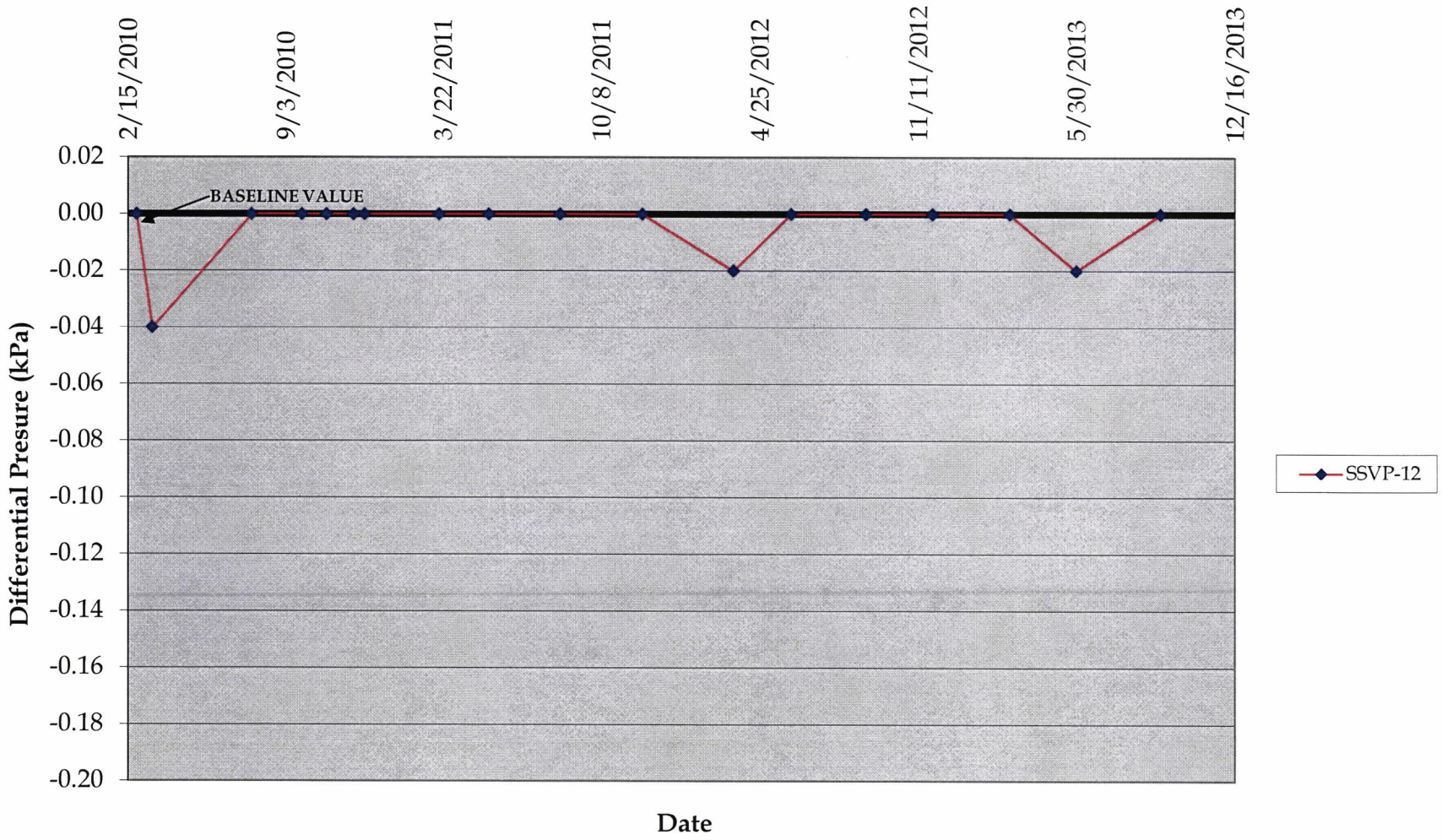
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-11



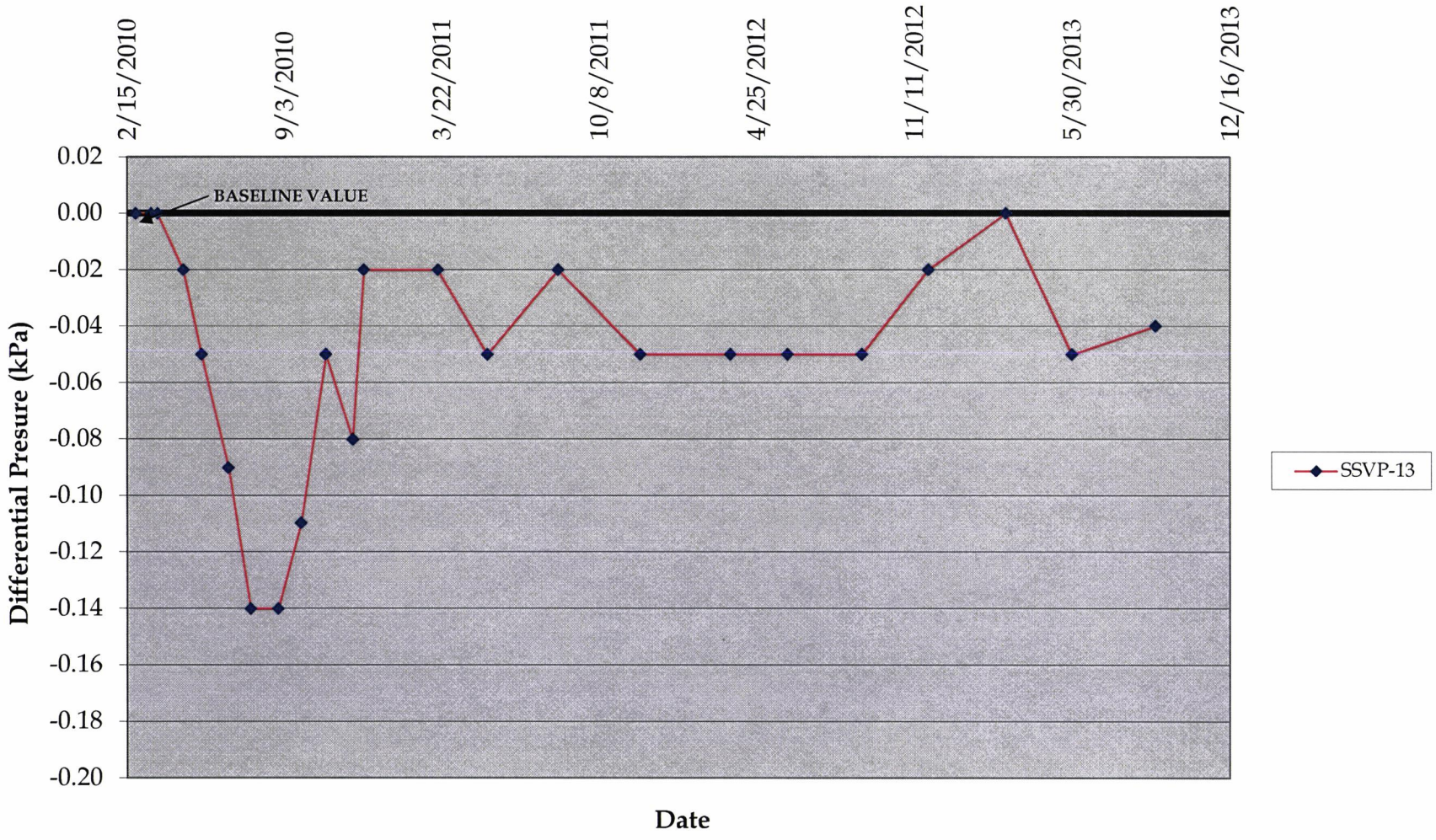
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-12



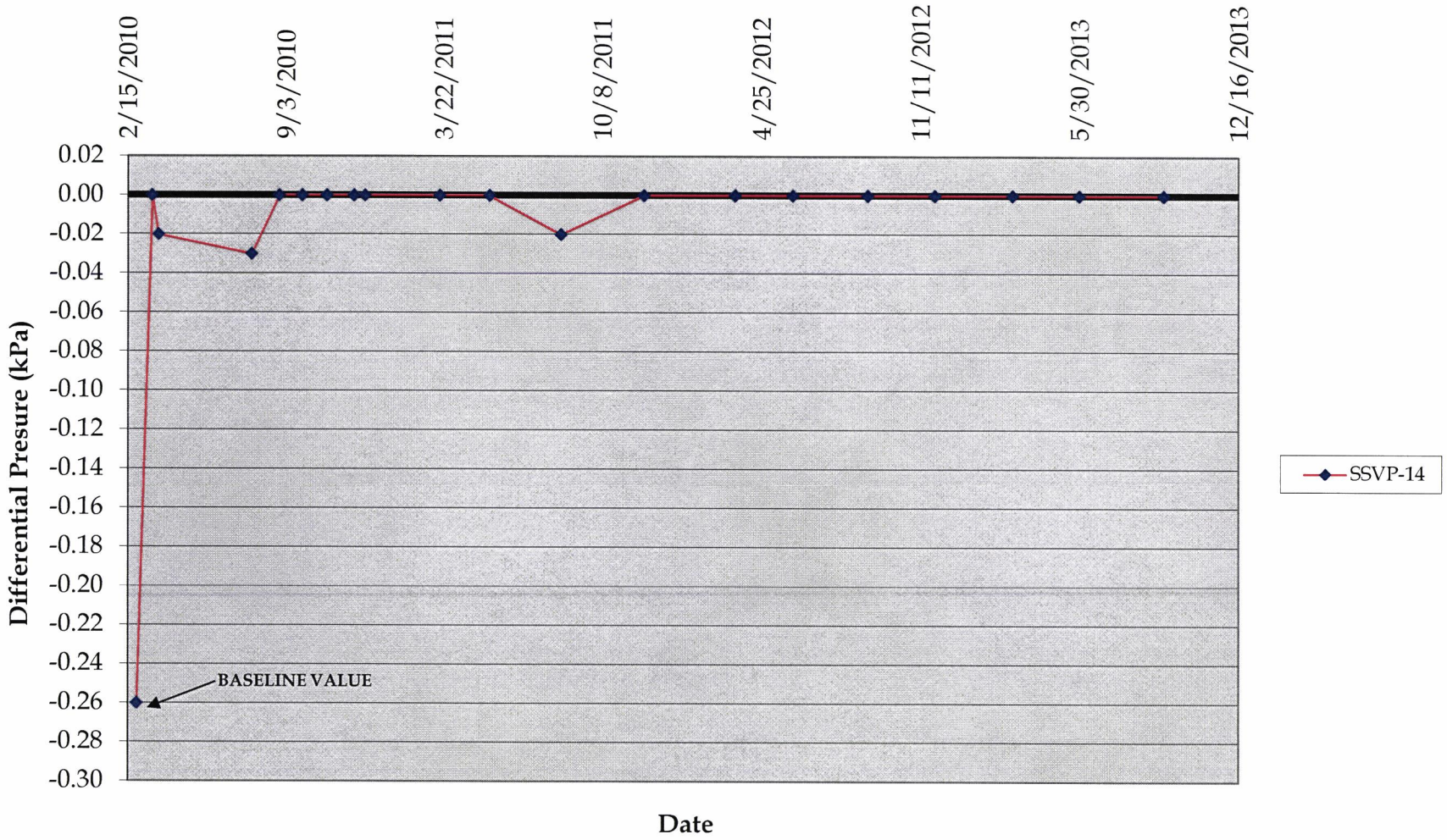
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-13

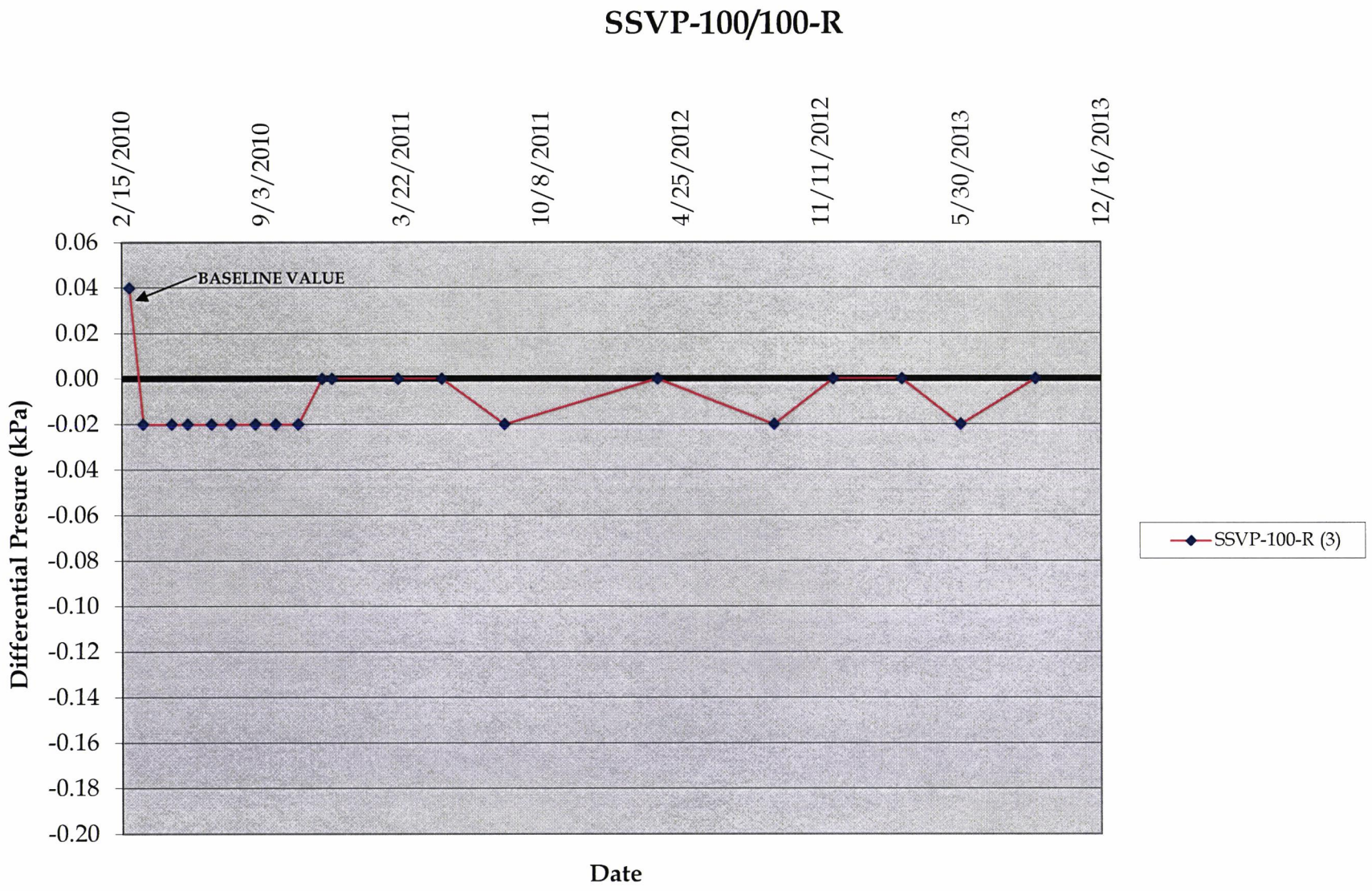


Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-14



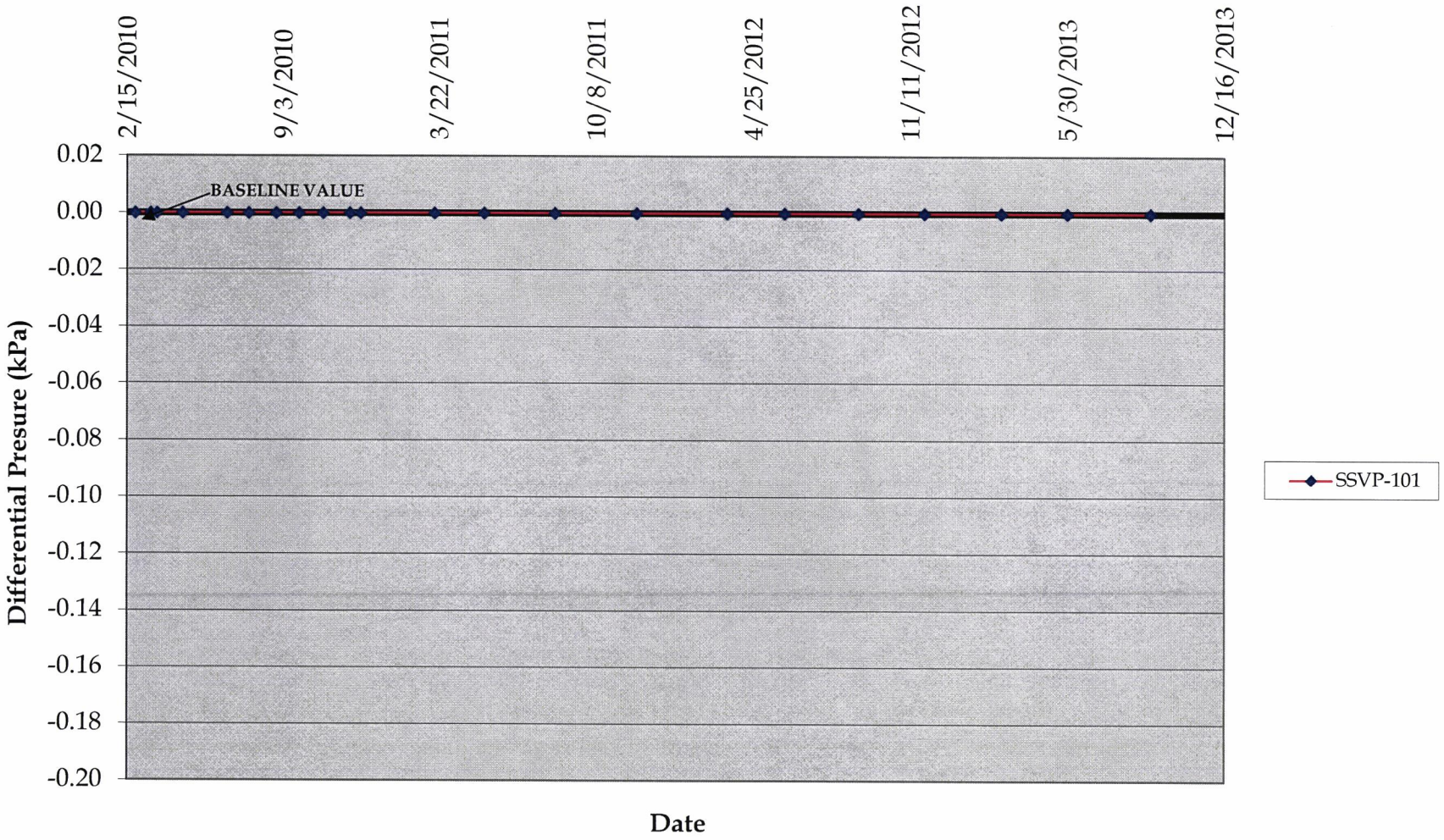
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data



SSVP-100 was replaced with SSVP-100-R on 3/26/2011

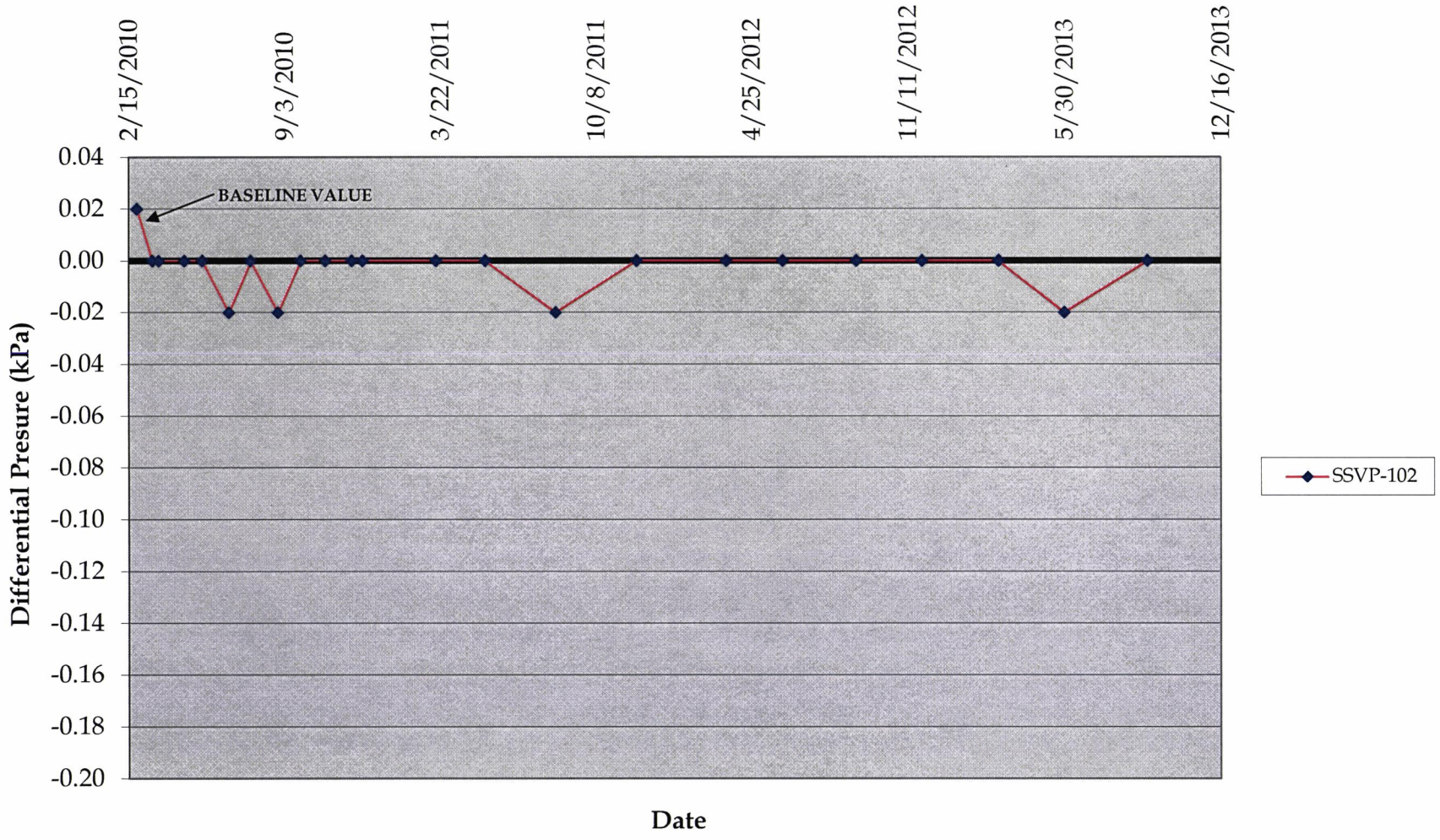
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-101



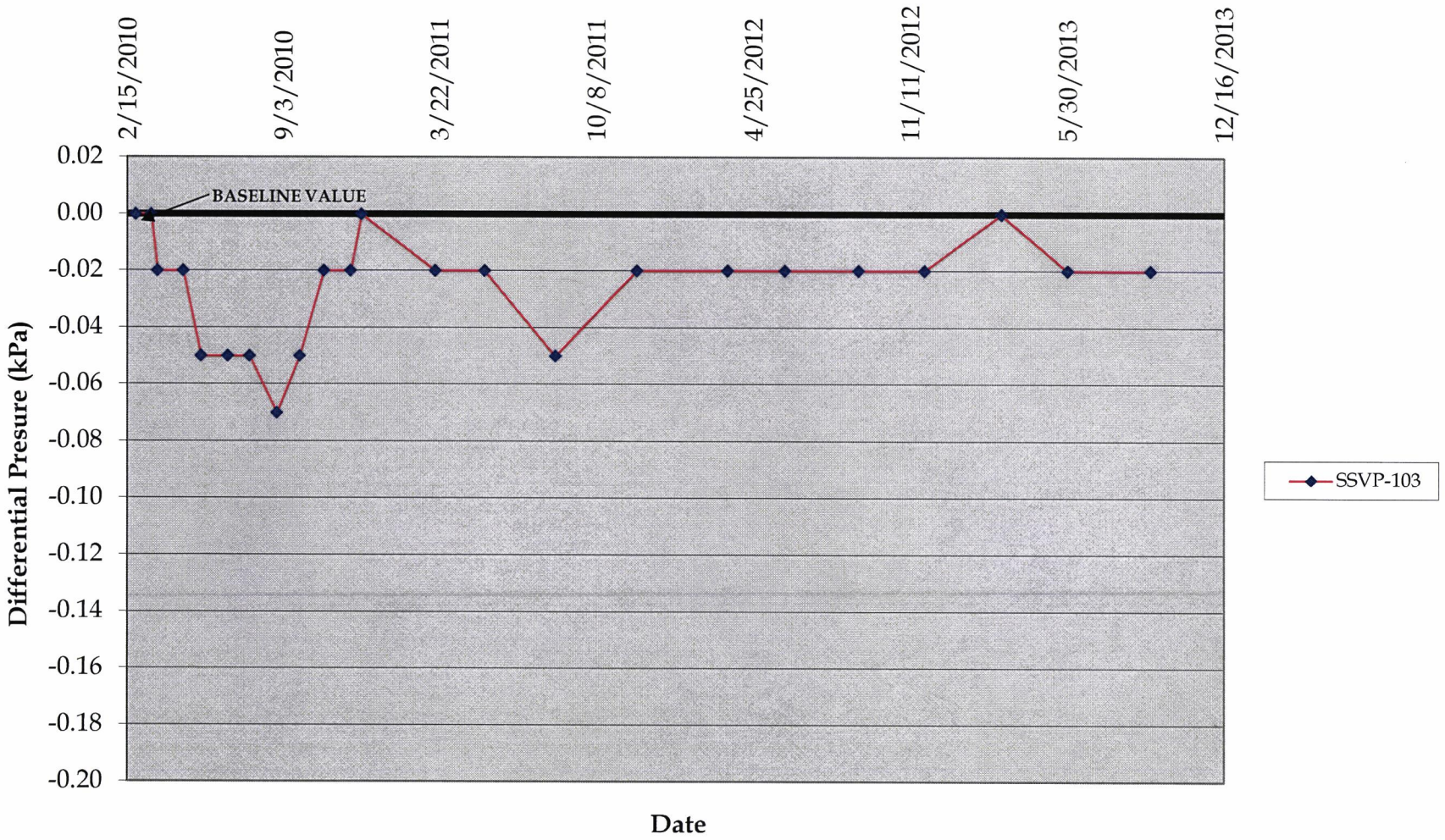
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-102



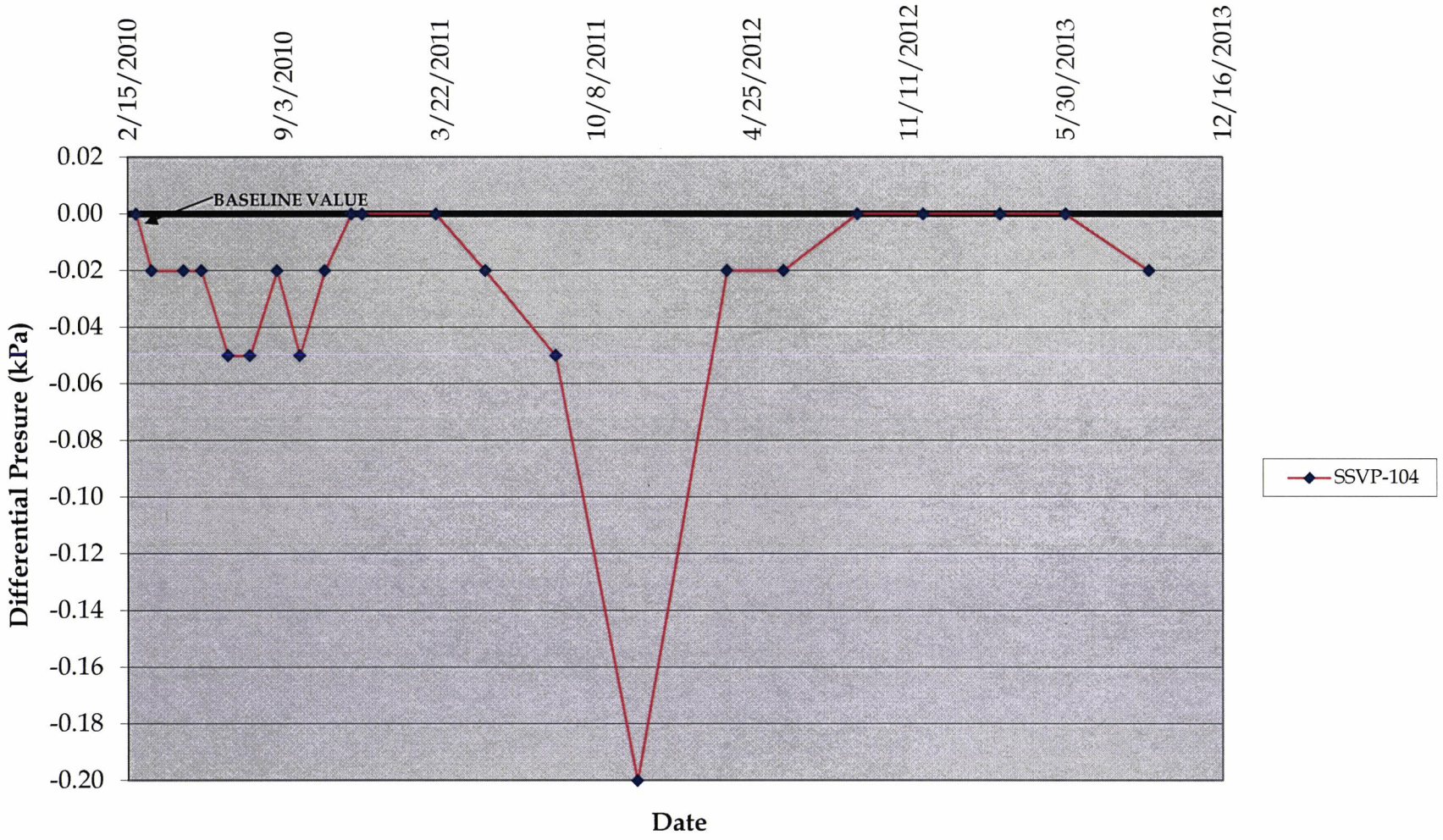
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-103



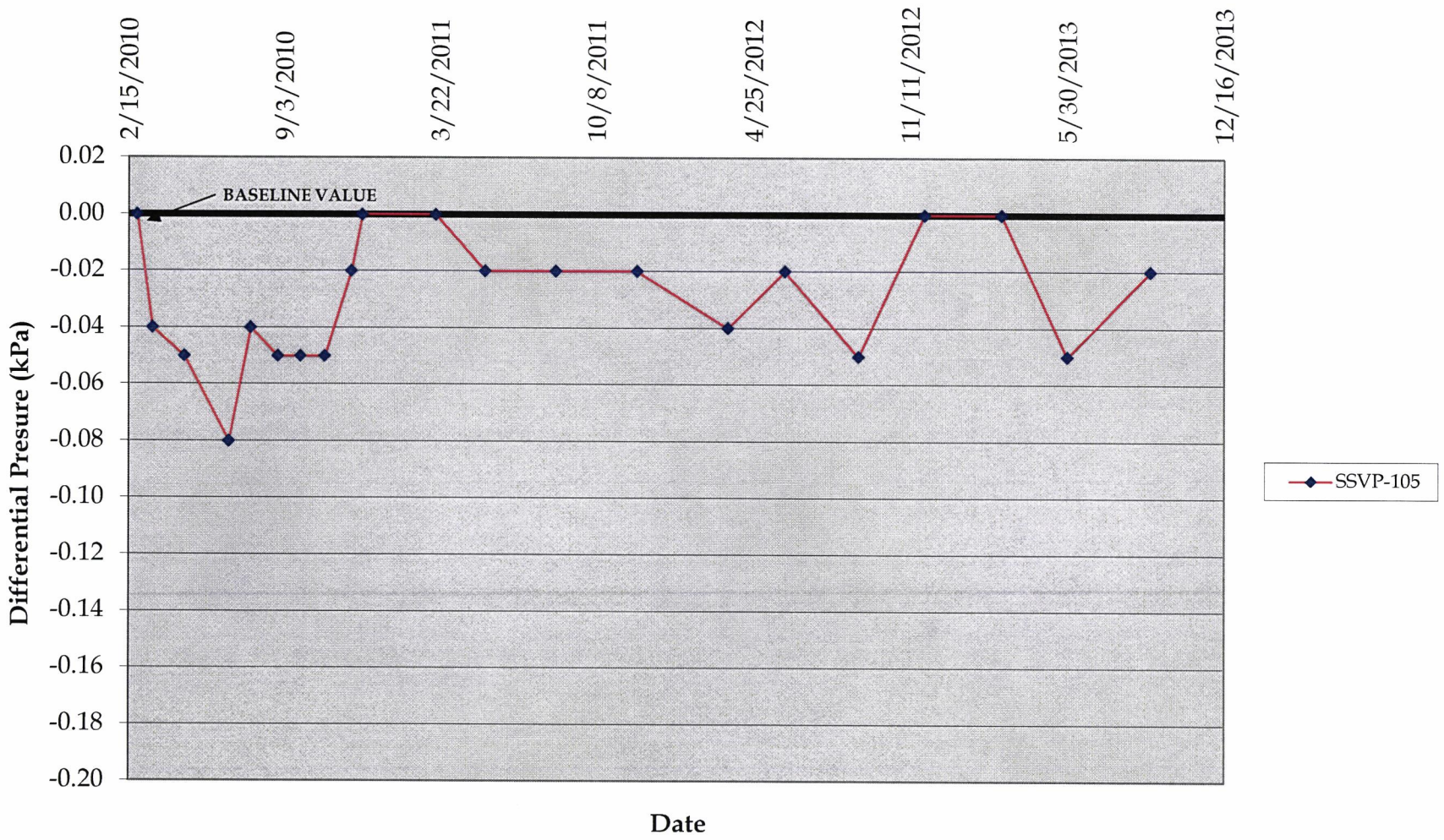
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-104



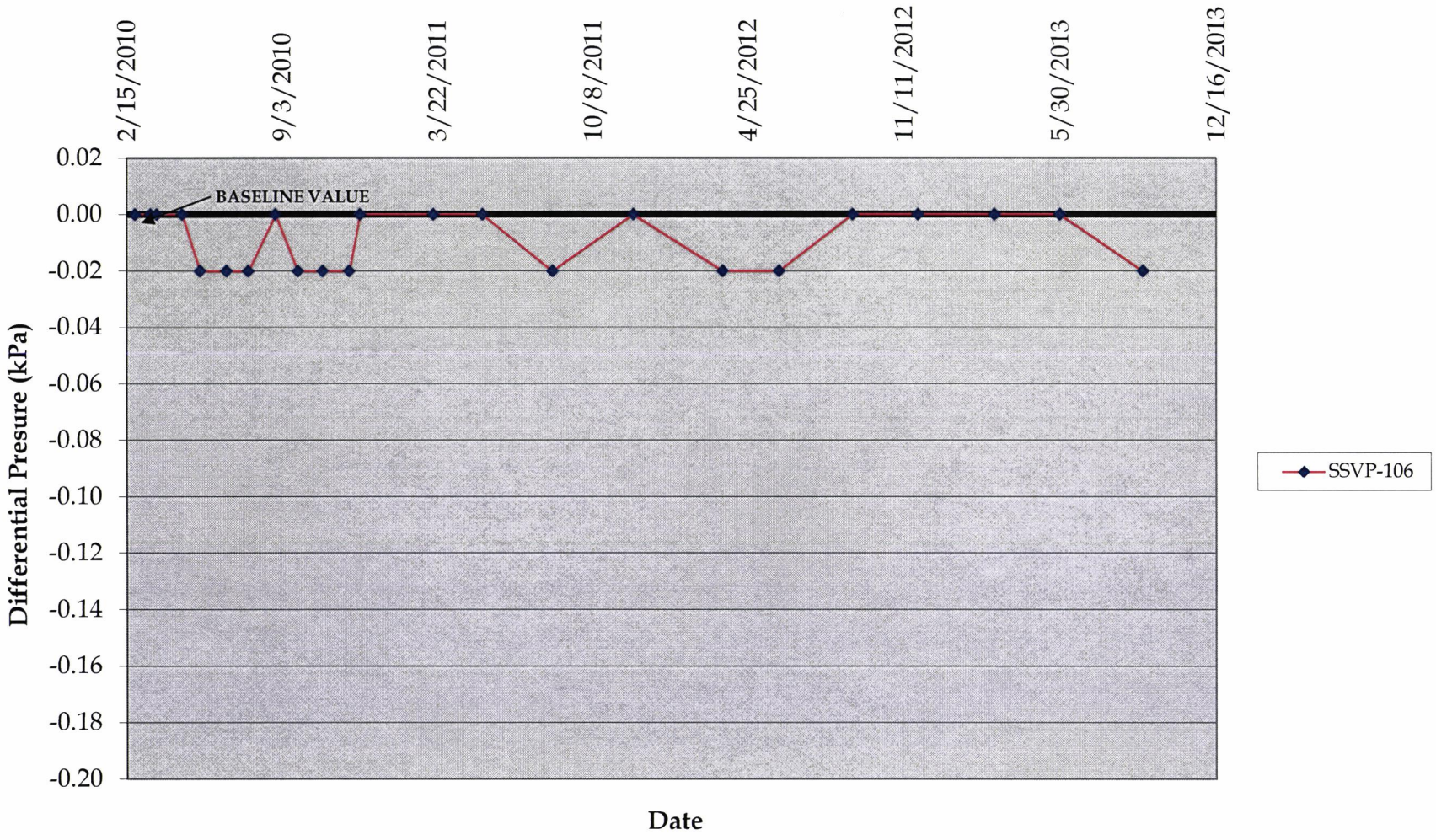
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-105



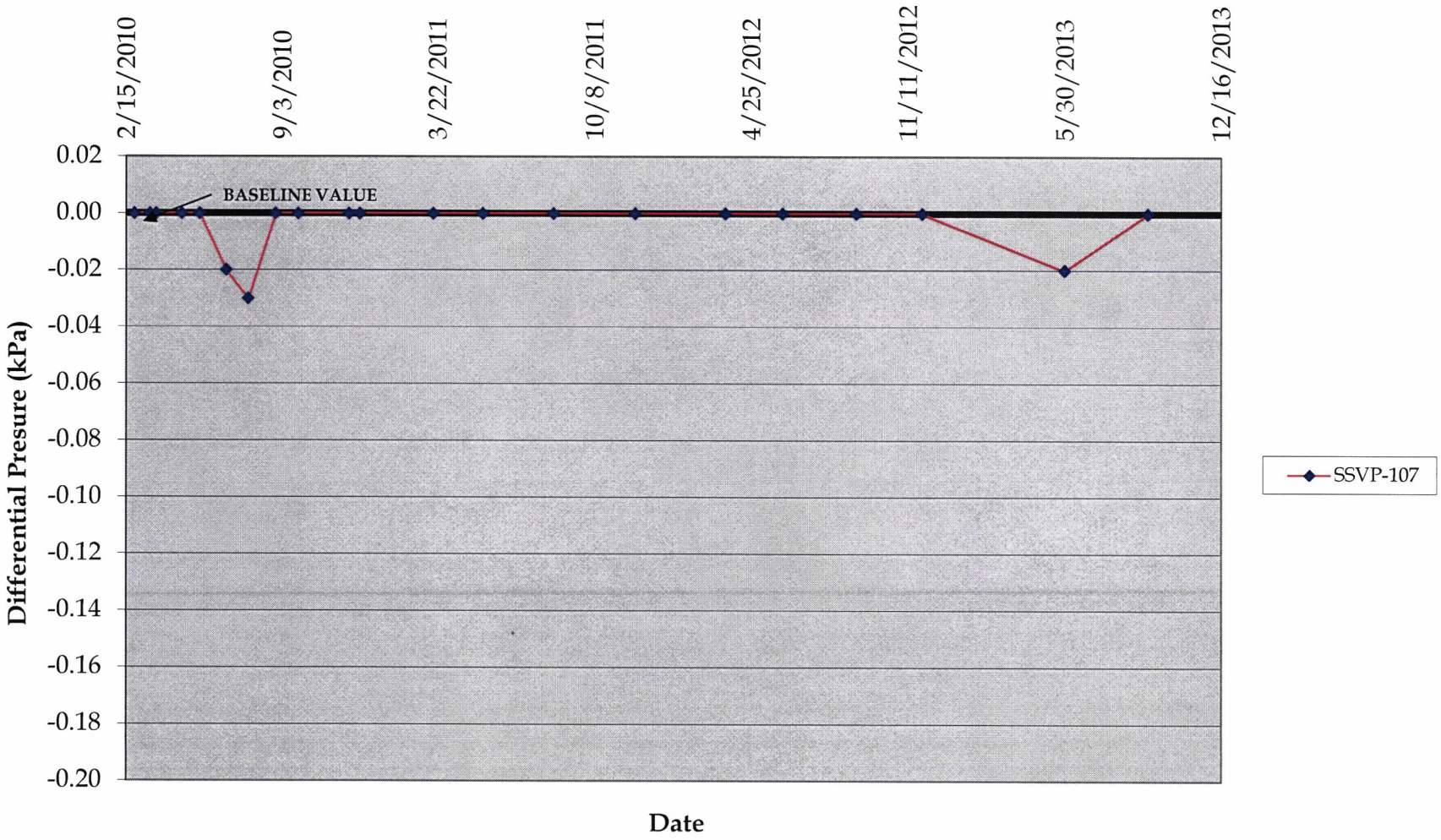
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-106



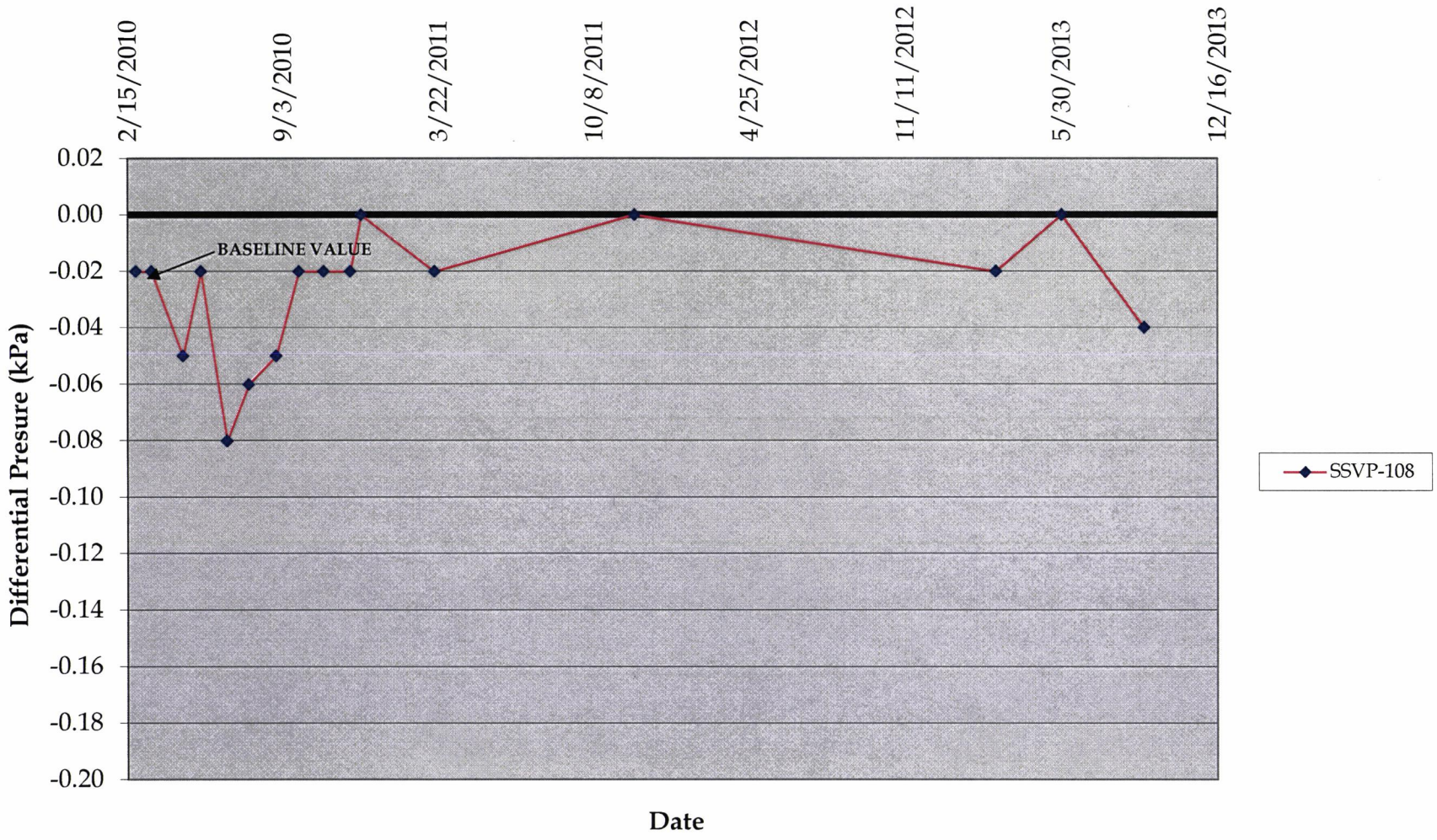
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-107



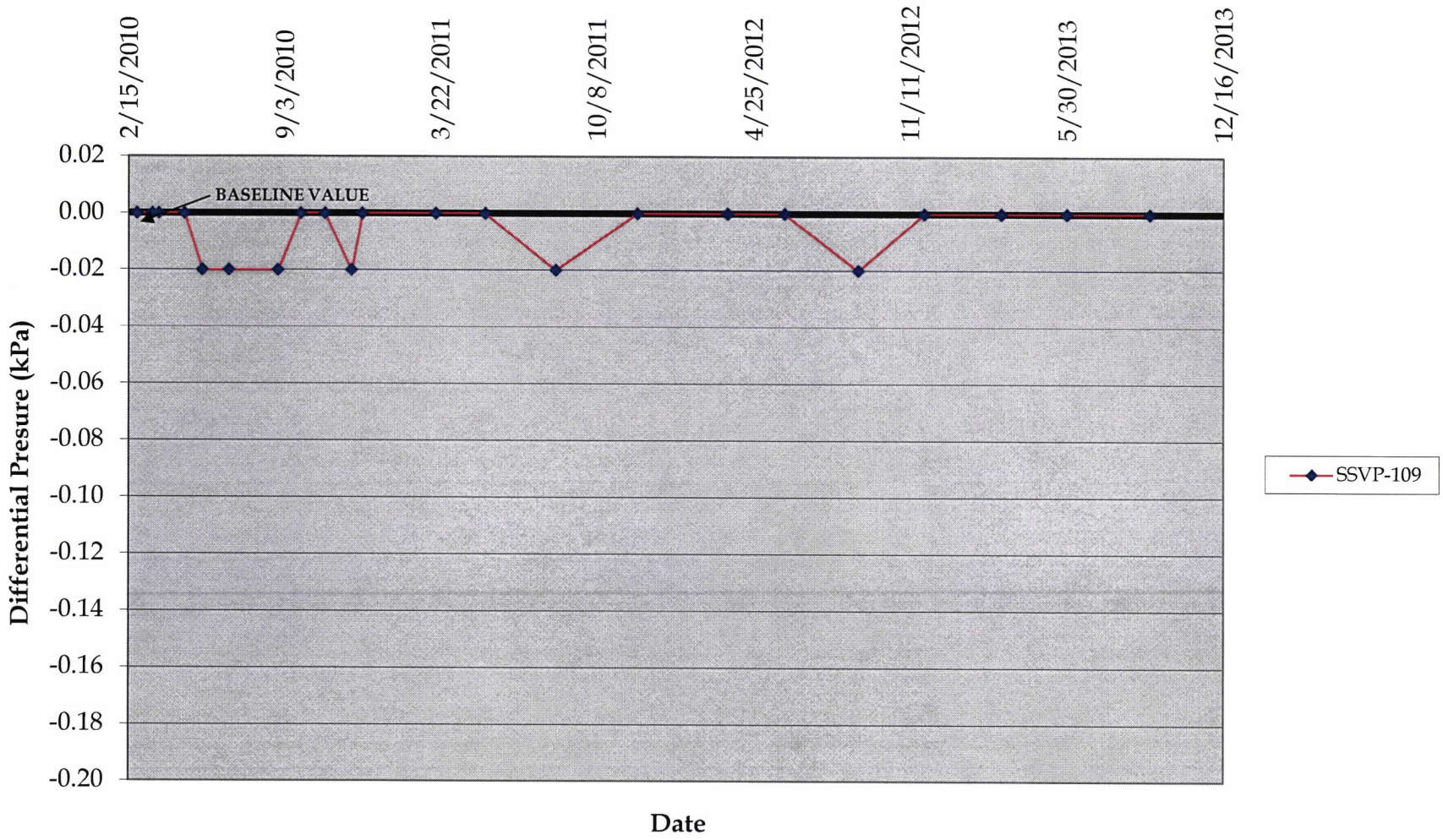
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-108



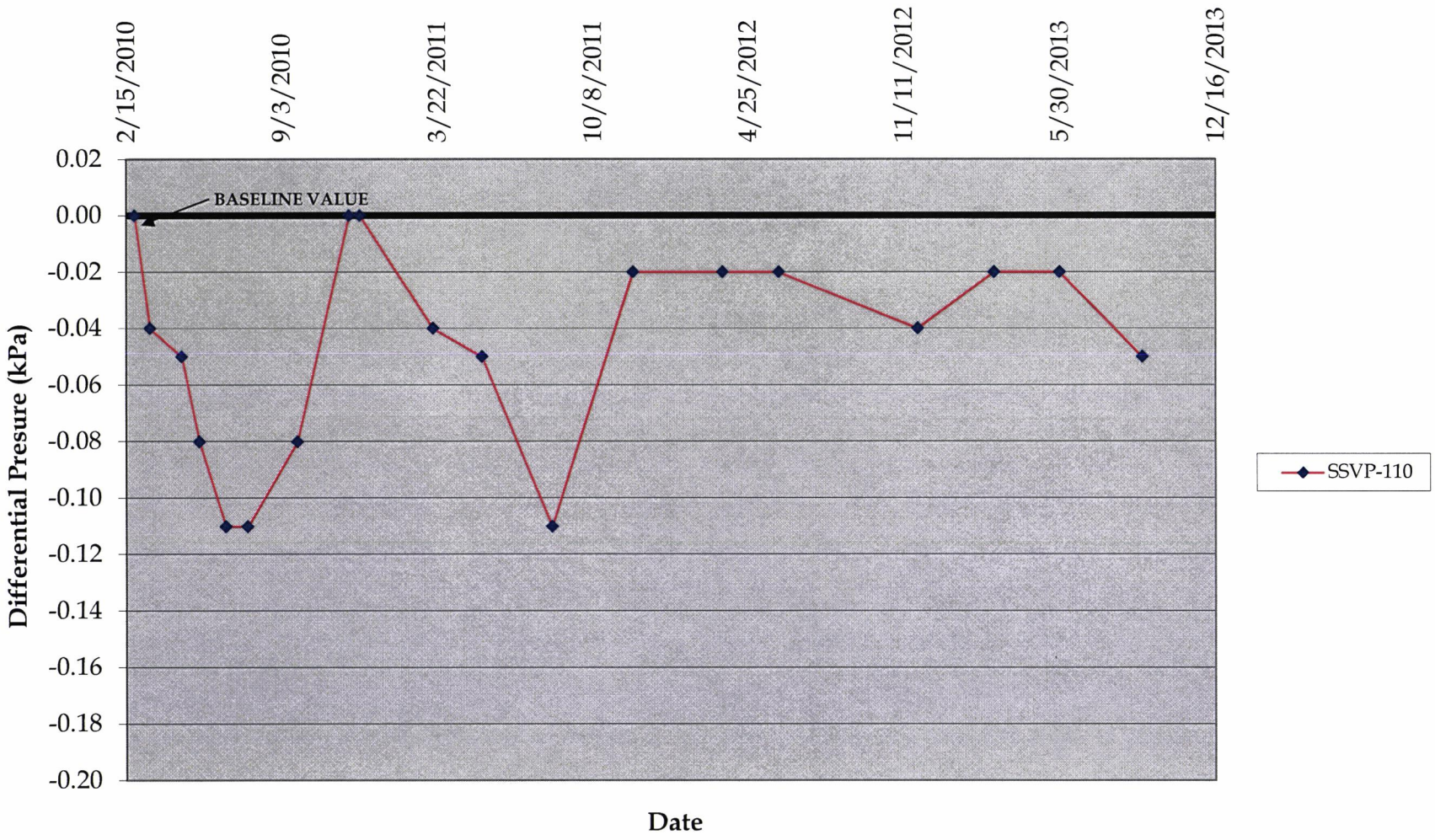
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-109



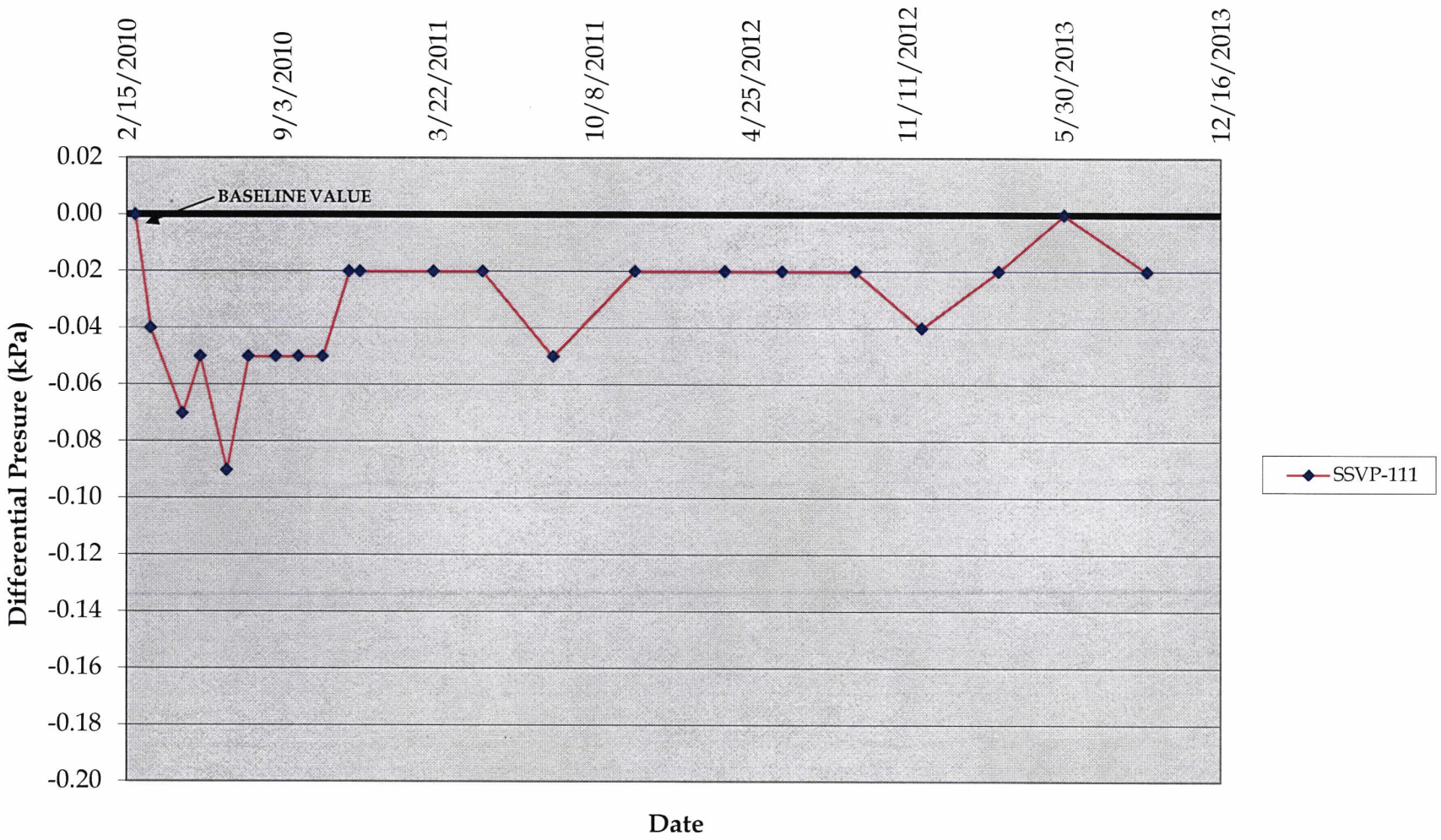
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-110



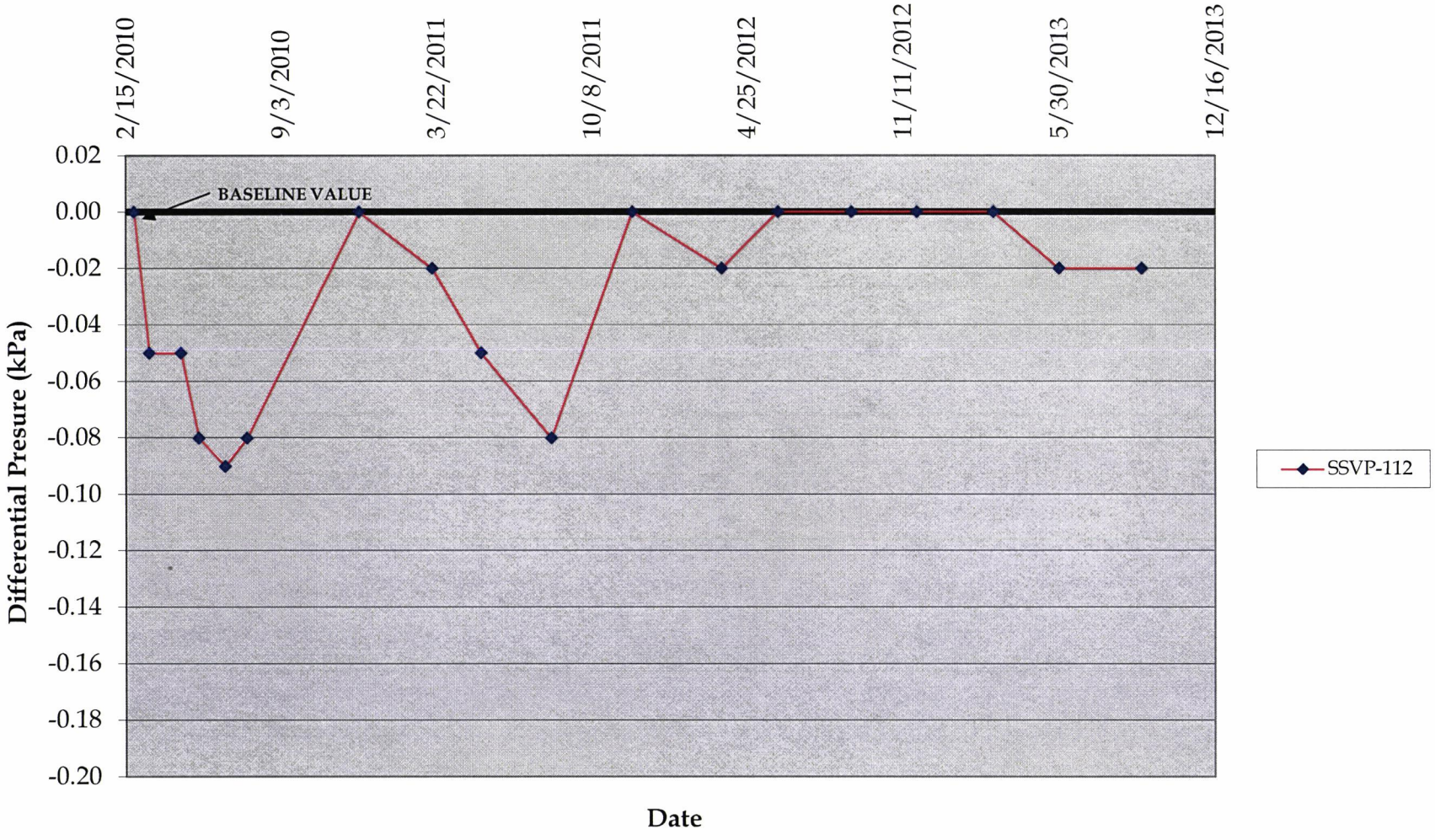
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-111



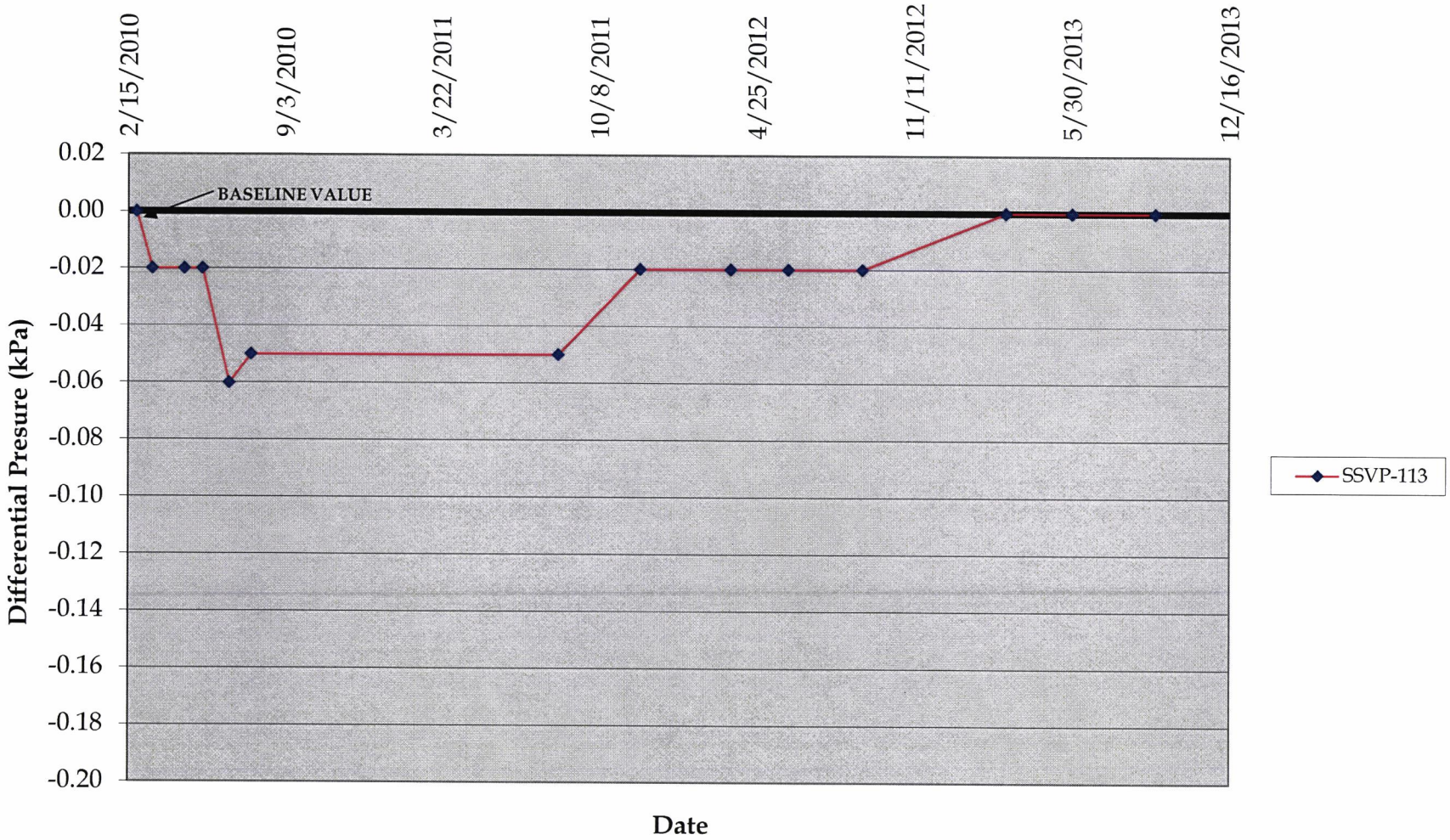
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-112



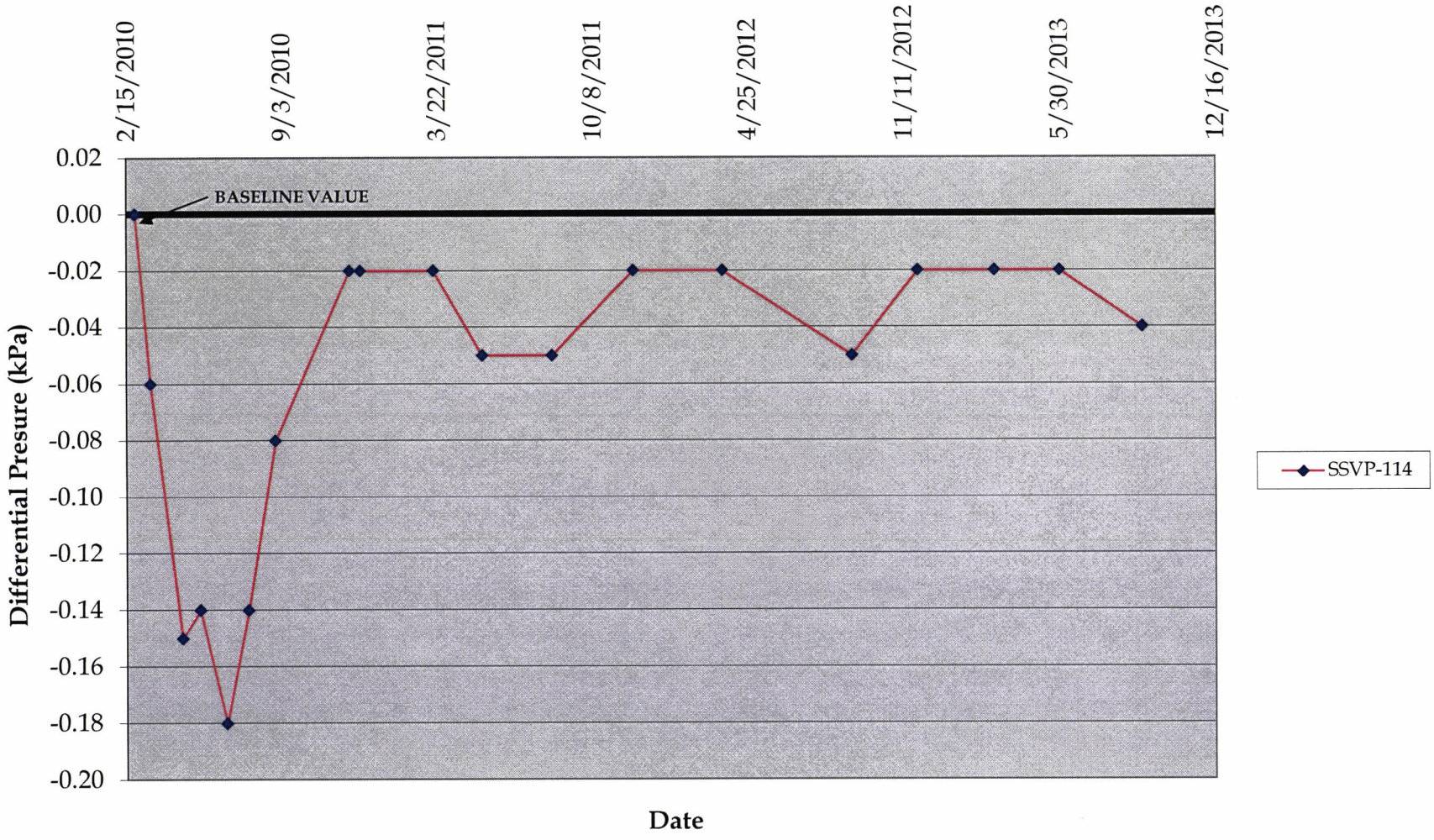
Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

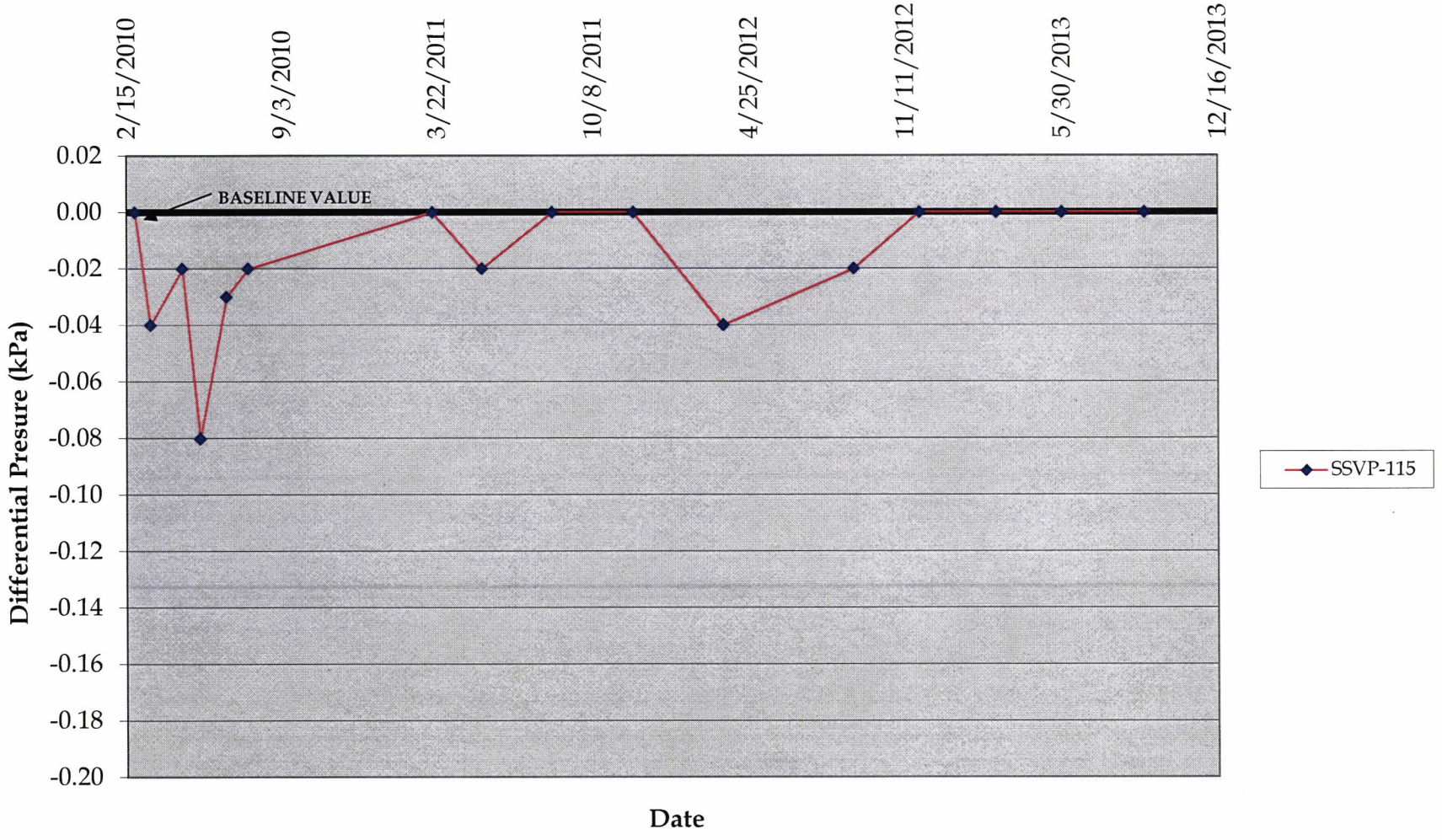
SSVP-113



Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-114



Former SECO Products Facility-Washington, MO
SSDS Facility Floor Performance Monitoring Point Data

SSVP-115