August 25, 2021

Girish Desai, P.E.
New York State Department of Environmental Conservation
50 Circle Road
Stony Brook, New York 11790

Re: SSDS Vacuum Monitoring Summary
First Quarter 2021
Bulova Watch Factory Site No. 152139
15 Church Street, Village of Sag Harbor, New York

Dear Mr. Desai:

On behalf of the Watchcase Factory Condominium, Roux Environmental Engineering and Geology, D.P.C. (Roux), is submitting this letter report summarizing the results of the sub-slab depressurization system (SSDS) monitoring activities performed at the Bulova Watch Factory Site No. 152139, 15 Church Street, Village of Sag Harbor, New York (Site) during the First Quarter of 2020. SSDS monitoring activities were conducted to confirm that the system is performing as designed in accordance with the January 27, 2009 Site Management Plan (SMP), the May 7, 2012 SMP Addendum No. 1, the October 2017 SMP Addendum No. 2, and the January 20, 2015 Operation, Maintenance, and Monitoring (OM&M) Plan submitted to the New York State Department of Environmental Conservation (NYSDEC). A brief description of SSDS operations and monitoring results during the First Quarter 2021 reporting period are provided below.

SSDS

The SSDS consists of a two-blower system in the former factory building and a separate one-blower system beneath the garage. The SSDS consists of five vapor-collection piping legs beneath the factory building, one vapor-collection piping leg beneath the garage, and one vapor-collection piping leg around the perimeter of the garage adjacent to the retaining wall. Vacuum readings for each piping leg were collected at the SSDS monitoring points. There are two monitoring points for each piping leg in the factory building, three monitoring points for the garage piping leg, and one monitoring point for the perimeter piping leg (Plates 1 and 2).

The factory and garage SSDSs are required to maintain a minimum vacuum of 0.004 inches of water column (in. w.c.)[1]. The SSDSs are equipped with visual and electronic monitoring devices to verify performance within the required range of vacuum. Each individual SSDS leg is equipped with a vacuum gauge and a data logger, which are designed to record vacuum readings down to 0.001 in. w.c. Each data logger displays a digital readout to provide real-time indications that the system is operating properly and records the most recent three months of vacuum readings for reference, if necessary.

[1] Vacuum readings were previously reported in negative pressure and were shown as a negative value. This was corrected by reporting vacuum readings as a positive value.

209 Shafter Street ■ Islandia, New York 11749 ■ +1.631.232.2600 ■ www.rouxinc.com
California ■ Illinois ■ Massachusetts ■ New Jersey ■ New York ■ Texas

An electronic auto-dialer will automatically contact Roux personnel, building management, and/or maintenance staff in the event that a system interruption occurs.

Quarterly SSDS Inspection and Monitoring

First Quarter 2021 SSDS inspection and monitoring activities were performed on March 29, 2021. In addition to visual inspections of the SSDS mechanical and above-grade piping components, the following parameters were monitored:

- Vacuum/pressure and air flow readings at the blower inlet and outlet;
- Vacuum readings at the moisture separator tank;
- Vacuum readings at the SSDS monitoring points; and
- Photoionization detector (PID) readings at the blower outlets.

During the Site visit, vacuum readings were collected at each SSDS monitoring point using a handheld micromanometer. Vacuum monitoring results from SSDS start-up through the First Quarter of 2021 are summarized in Table 1 (attached). A review of Table 1 indicates that the SSDS was operating properly at each leg (i.e., maintaining a minimum vacuum of 0.004 in. w.c.).

If you have any questions or require additional information regarding this monitoring summary, please feel free to contact the undersigned at 631-232-2600.

Sincerely,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

Nathan Epler, Ph.D.
Principal Hydrogeologist

Attachments

1. SSDS Monitoring Summary Tables
2. Factory Building SSDS As-Builts
3. Garage SSDS As-Builts

ATTACHMENTS

1. SSDS Monitoring Summary Tables
2. Factory Building SSDS As-Builts
3. New Construction SSDS As-Builts

ATTACHMENT 1

SSDS Monitoring Summary Tables

Table 1. SSDS Monitoring Summary, Bulova Watch Case Factory Site No. 1-52-139

	Factory Building SSDS															
	SSDS Zones Inside Blower Room					Blower 1					Blower 2					
Date	Zone 1 (in. w.c.)	Zone 2 (in. w.c.)	Zone 3 (in. w.c.)	Zone 4 (in. w.c.)	Zone 5 (in. w.c.)	Runtime (hours)	Influent (in. w.c.)	K.O (in. w.c.)	Effluent (in. w.c.)	PID (ppm)	Runtime (hours)	Influent (in. w.c.)	K.O (in. w.c.)	Effluent (in. w.c.)	PID (ppm)	
March 6, 2015	2.50	2.40	1.90	5.80	6.50	--	25	31	--	--	--	20	8	--	--	
March 12, 2015	2.58	2.06	3.24	5.93	6.73	--	--	--	--	--	--	--	--	--	--	
March 19, 2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
March 24, 2015	6.38	5.76	3.15	5.77	6.46	--	--	--	--	--	--	--	--	--	--	
April 2, 2015	2.51	2.06	3.21	5.81	6.52	2,750.6	22	31	20	0.0	1,943.8	20	10	19	0.0	
April 7, 2015	2.44	2.06	3.3	5.64	6.47	2,871.4	25	32	20	0.0	2,064.4	20	19	20	0.0	
April 14, 2015	2.59	1.97	3.51	5.38	6.73	3,040.2	32	30	20	0.0	2,033.2	20	20	20	0.0	
April 22, 2015	2.48	2.02	3.24	5.53	6.46	3,231.2	25	31	20	0.0	2,424.1	21	10	18	0.0	
May 5, 2015	2.52	2.03	3.19	5.78	6.42	3,512.8	18	32	20	0.0	2,705.7	21	9	18	0.0	
May 11, 2015	2.54	1.98	3.28	5.72	6.53	3,621.5	25	31	20	0.0	2,814.4	21	10	17	0.0	
May 27, 2015	2.78	2.26	3.37	0.31	0.46	3,821.9	Blower 1 down since May 23, 2015				3,112.8	29	32	6	0.0	
June 2, 2015	2.78	2.26	3.40	0.31	0.43	3,821.9	Blower 1 down since May 23, 2015				3,256.6	29	38	6	0.0	
June 9, 2015	2.44	2.07	3.24	5.66	6.50	3,833.0	20	10	15	--	3,485.2	24	30	20	--	
July 29, 2015	2.61	2.07	3.24	3.82	6.59	4,853.2	21	10	19	0.0	4,288.2	25	20	20	0.0	
August 6, 2015	2.63	2.17	3.31	5.72	6.46	5,048.4	21	9	18	0.0	4,483.5	25	20	20	0.0	
September 11, 2015	2.62	2.14	3.30	5.74	6.55	5,910.9	21	10	19	0.0	5,340.0	24	20	19	0.0	
December 31, 2015	2.68	2.02	3.30	5.76	6.48	8,576.6	22	10	18	0.2	8,011.3	21	20	20	0.1	
January 21, 2016	2.62	2.04	3.25	5.67	6.45	9,078.4	22	10	18	0.2	8,513.5	22	19	19	0.1	
March 22, 2016	2.66	1.98	3.31	5.78	6.42	10,543.2	25	20	20	0.0	9,979.0	21	10	18	0.1	
April 22, 2016	2.60	2.04	3.26	5.62	6.37	11,286.5	22	20	20	0.1	10,721.4	21	9	18	0.0	
May 27, 2016	2.63	2.05	3.24	5.61	6.44	12,195.4	22	20	20	0.0	11,463.2	21	10	18	0.0	
June 21, 2016	2.68	2.07	3.20	5.65	6.42	12,724.4	23	20	20	0.0	12,159.4	21	9	18	0.0	
March 22, 2017	2.63	2.09	3.29	5.69	6.43	19,046.5	--	20	20	0.0	18,481.0	21	--	--	--	
May 5, 2017	2.62	2.03	2.99	5.79	6.47	20,105.3	21	--	18	0.0	19,540.3	27	20	20	0.0	
July 21, 2017	2.68	1.93	3.01	5.79	5.72	21,953.8	27	10	18	0.0	21,388.1	21	20	19	0.0	
December 13, 2017	2.66	1.96	2.41	5.62	6.37	25,433.2	25	10	18	0.1	24,868.2	25	20	18	0.0	
February 12, 2018	2.6	2.20	3.29	5.75	6.46	--	20	10	18	0.1	--	25	20	20	0.0	
May 15, 2018	2.66	2.01	2.41	5.82	6.53	29,104.8	24	10	18	0.0	28,539.7	25	20	19	0.0	
August 16, 2018	2.63	2.08	2.49	5.81	6.58	31,273.0	26	9	18	0.0	30,707.0	22	20	18	0.0	
October 3, 2018	2.64	1.98	2.66	5.75	6.52	32,427.7	24	10	18	0.0	31,861.0	22	20	18	0.0	
January 16, 2019	2.51	1.98	2.69	5.75	6.46	34,947.8	22	8	18	0.0	34,381.6	24	18	20	0.0	
April 5, 2019	2.71	2.14	2.71	5.77	6.65	36,839.8	22	10	19	0.0	36,274.5	24	20	19	0.0	
August 2, 2019	2.63	2.20	2.98	5.73	6.58	39,672.0	22	10	19	0.0	39,106.7	24	20	19	0.0	
December 23, 2019	2.69	2.10	2.45	5.79	6.52	43,131.3	26	10	16	0.0	42,565.8	19	20	18	0.0	
March 31, 2020	2.66	2.10	2.05	5.78	6.54	45,505.2	24	8	10	0.0	44,939.6	19	20	18	0.0	
June 17, 2020	2.64	2.04	2.26	5.79	6.58	47,375.8	26	8	14	0.0	46,810.2	20	20	18	0.0	
September 16, 2020	2.12	2.53	2.34	5.87	6.57	49,669.6	26	6	8	0.0	48,994.1	20	18	20	0.0	
December 8, 2020	2.76	2.31	2.11	5.55	6.59	51,555.6	26	14	8	0.0	50,990.6	30	22	16	0.0	
December 9, 2020	5.09	5.20	3.22	2.72	3.21	51,580.1	25	15	8	0.0	51,014.6	35	26	16	0.0	
December 15, 2020	5.17	5.16	3.05	2.42	4.07	51,721.5	25	14	8	0.0	51,155.9	35	26	16	0.0	
March 29, 2021	5.26	5.37	2.98	2.36	4	54,058.2	21	13	10	0.0	53,492.7	24	21	18	0.0	

Notes:

Blower 1: Rotron EN808, 7.5Hp, located in factory building blower room
Blower 2: Rotron EN808, 7.5Hp, located in factory building blower room
Garage Blower: Rotron EN909 15Hp, located in garage blower room
Zone 1: SSDS Green Line, Blower 2
Zone 2: SSDS Purple Line, Blower 2
Zone 3: SSDS Orange Line, Blower 2
Zone 4: SSDS Red Line, Blower 1
Zone 5: SSDS Blue Line, Blower 1
Perm. E.: SSDS Perimeter East Line, Garage Blower
Perm. W.: SSDS Perimeter West Line, Garage Blower
Garage: SSDS Garage Line, Garage Blower
Influent: Blower Influent Vacuum Gauge
K.O.: Blower Knockout Tank/Moisture Separator Vacuum Gauge
Effluent: Blower Effluent Pressure Gauge
PID: Photoionization Detector
in. w.c.: inches of water column
ppm: parts per million
--: measurement was not collected

Table 1. SSDS Monitoring Summary, Bulova Watch Case Factory Site No. 1-52-139

	Garage & Perimeter SSDS							
	SSDS Zones Inside Blower Room			Garage Blower				
Date	Perm. E. (in. w.c.)	Perm. W. (in. w.c.)	Garage (in. w.c.)	Runtime (hours)	Influent (in. w.c.)	K.O. (in. w.c.)	Effluent (in. w.c.)	PID (ppm)
March 6, 2015	2.20	2.00	0.90	--	28	19	--	--
March 12, 2015	2.63	2.34	0.52	--	--	--	--	--
March 19, 2015	2.57	2.23	0.56	--	--	--	--	--
March 24, 2015	2.61	2.17	0.51	--	--	--	--	--
April 2, 2015	2.52	2.20	0.51	2,859.4	24	11	2.2	0.0
April 7, 2015	2.67	2.24	0.53	2,980.0	24	27	2.5	0.0
April 14, 2015	2.88	2.39	0.57	3,148.8	27	18	2	0.0
April 22, 2015	2.89	2.48	0.58	3,340.4	27	18	2	0.0
May 5, 2015	2.72	2.23	0.61	3,651.1	27	19	2	0.0
May 11, 2015	2.61	2.18	0.51	3,796.6	27	19	2	0.0
May 27, 2015	2.59	2.16	0.57	4,179.4	27	19	2	0.0
June 2, 2015	2.70	2.28	0.68	4,323.1	28	18	2	0.0
June 9, 2015	2.72	2.12	0.57	4,492.1	28	18	2	--
July 29, 2015	2.48	2.02	0.66	5,502.1	27	19	2	0.0
August 6, 2015	2.45	1.95	0.56	5,698.0	27	18	2	0.0
September 11, 2015	2.88	2.34	0.52	6,559.7	27	19	2	0.0
December 31, 2015	2.94	2.52	0.64	9,226.1	27	19	2	0.0
January 21, 2016	2.68	2.24	0.56	9,727.9	27	19	2	0.2
March 22, 2016	2.79	2.33	0.62	11,192.6	27	19	2	0.1
April 22, 2016	2.68	2.17	0.57	11,836.2	27	18	2	0.0
May 27, 2016	2.72	2.14	0.63	12,482.2	27	18	2	0.0
June 21, 2016	2.65	2.26	0.59	13,373.5	27	19	2	0.0
March 22, 2017	2.71	2.21	0.61	--	28	18	2	0.0
May 5, 2017	2.96	2.55	0.59	--	27	19	2	0.0
July 21, 2017	2.62	2.14	0.68	22,856.7	25	18	2	0.0
December 13, 2017	2.59	2.17	0.53	26,335.8	25	18	2	0.0
February 12, 2018	2.52	1.97	0.54	--	25	18	2	0.0
May 15, 2018	2.7	2.24	0.52	30,007.3	26	18	2	0.0
August 16, 2018	2.51	2.06	0.60	32,115.6	27	19	2	0.0
October 3, 2018	2.29	2.69	0.58	33,329.5	27	18	2	0.1
January 16, 2019	2.57	2.14	0.53	35,849.1	27	18	2	0.0
April 5, 2019	2.49	1.99	0.56	37,741.0	27	18	2	0.0
August 2, 2019	2.68	2.34	0.54	40,573.2	27	18	2	0.0
December 23, 2019	2.26	1.77	0.53	44,034.1	25	15	2	0.0
March 31, 2020	2.39	1.77	0.45	46,406.5	23	16	2	0.0
June 17, 2020	2.15	1.75	0.61	48,278.5	25	16	3	0.0
September 16, 2020	2.06	1.52	0.53	50,461.1	25	10	2	0.0
December 8, 2020	1.45	1.82	0.83	52,457.5	25	15	2	0.0
December 9, 2020	1.45	1.80	0.85	52,482.0	21	10	2	0.0
December 15, 2020	NM	NM	NM	52,482.0	NM	NM	2	NM
March 29, 2021	1.91	1.65	0.94	55,113.9	20	10	10	0.0

Notes:

Blower 1: Rotron EN808, 7.5Hp, located in factory building blower room
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Zone 1: SSDS Green Line, Blower 2
Zone 2: SSDS Purple Line, Blower 2
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Effluent: Blower Effluent Pressure Gauge
PID: Photoionization Detector
in. w.c.: inches of water column
ppm: parts per million
--: measurement was not collected

Table 1. SSDS Monitoring Summary, Bulova Watch Case Factory Site No. 1-52-139

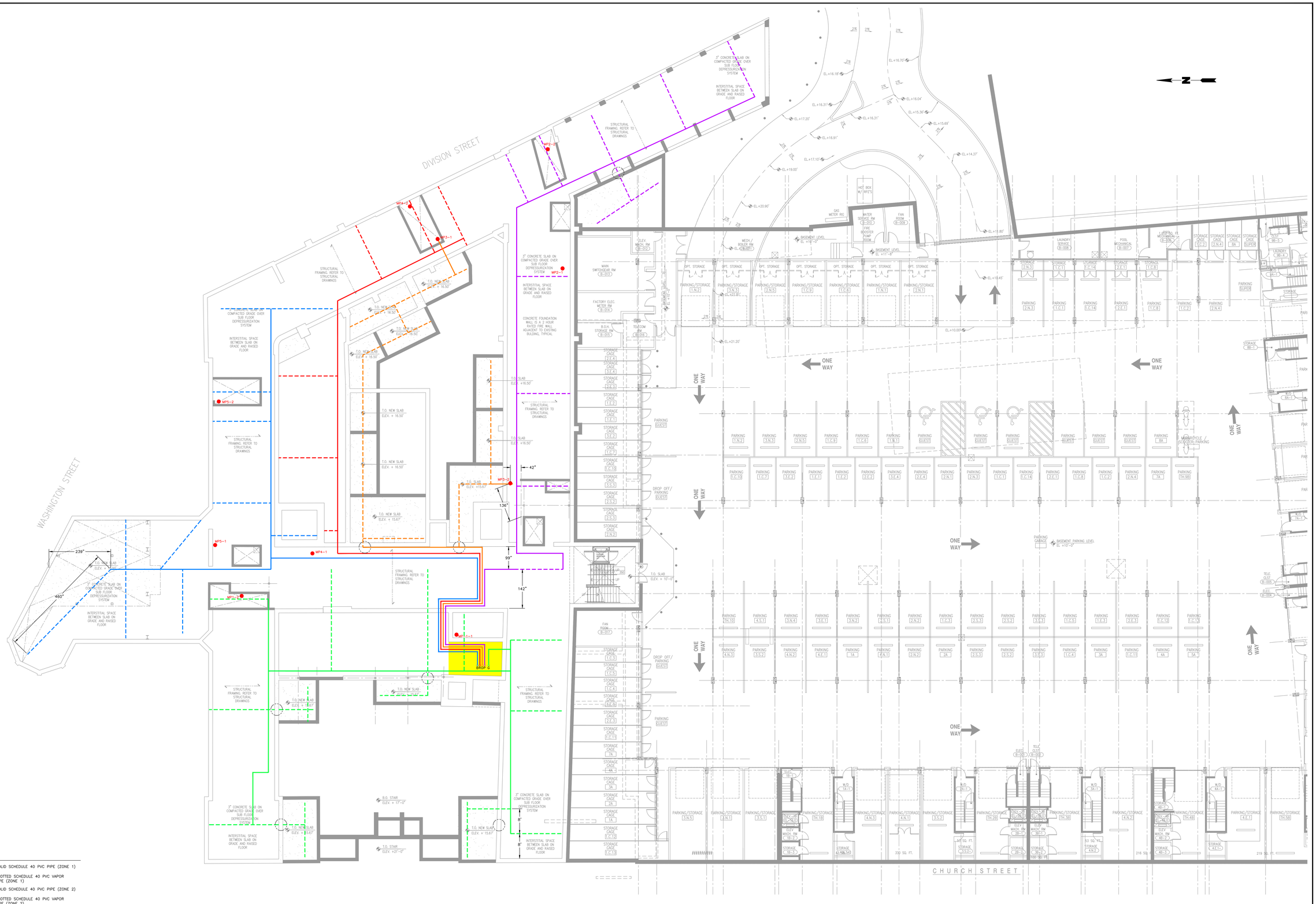
	SSDS Monitoring Points													
	Factory Building										Garage & Perimeter			
Date	MP1-1 (in. w.c.)	MP1-2 (in. w.c.)	MP2-1 (in. w.c.)	MP2-2 (in. w.c.)	MP3-1 (in. w.c.)	MP3-2 (in. w.c.)	MP4-1 (in. w.c.)	MP4-2 (in. w.c.)	MP5-1 (in. w.c.)	MP5-2 (in. w.c.)	MP6-1 (in. w.c.)	MP6-2 (in. w.c.)	MP6-3 (in. w.c.)	MP7-1 (in. w.c.)
June 9, 2015	N/A	0.030	0.000	0.367	0.110	N/A	0.007	1.155	0.017	0.010	0.164	0.084	N/A	1.978
July 29, 2015	0.042	0.042	0.009	0.135	0.034	0.019	N/A	1.178	N/A	0.012	0.129	0.094	0.038	1.838
August 6, 2015	0.119	0.041	0.009	0.386	0.032	0.008	0.030	1.168	0.021	0.118	0.131	0.092	0.039	1.808
September 11, 2015	0.111	0.049	0.008	0.393	0.035	0.010	0.035	1.177	0.019	0.120	0.129	0.040	0.090	1.799
December 31, 2015	0.123	0.031	0.008	N/A	0.024	0.010	0.025	0.991	0.008	0.189	0.124	0.266	0.011	2.259
January 21, 2016	0.112	0.020	0.008	N/A	0.013	0.013	0.023	0.915	0.021	0.278	0.105	0.230	0.066	1.963
March 22, 2016	0.104	0.024	0.007	0.025	0.023	0.014	0.020	0.891	0.011	0.375	0.114	0.252	0.075	2.112
April 22, 2016	0.155	0.026	0.004	0.759	0.015	0.012	0.017	0.898	0.017	0.098	0.117	0.258	0.076	5.733
May 27, 2016	0.109	0.034	0.006	0.549	0.021	0.010	0.025	0.912	0.022	0.205	0.131	0.267	0.081	2.064
June 21, 2016	0.122	0.030	0.009	0.261	0.019	0.012	0.022	0.940	0.014	0.240	0.128	0.269	0.086	2.021
March 22, 2017	0.087	0.019	0.021	0.219	0.007	0.010	0.014	0.847	0.004	0.401	0.125	0.246	-0.083	2.014
May 5, 2017	0.101	0.021	0.006	0.205	0.005	0.011	0.019	0.889	0.026	0.071	0.191	0.254	N/A	2.309
July 21, 2017	0.118	0.036	0.012	0.236	0.007	0.014	0.020	0.938	0.008	0.101	0.128	0.244	0.082	1.944
December 13, 2017	0.086	0.022	0.006	0.194	0.011	0.011	0.016	0.877	0.012	0.329	0.129	0.248	0.080	1.933
February 12, 2018	0.118	0.040	0.009	0.089	0.031	0.010	0.032	1.155	0.027	0.118	0.134	0.035	0.091	1.808
May 15, 2018	0.104	0.023	0.009	0.195	0.008	0.014	0.019	0.883	0.012	0.015	0.129	1.950	0.080	2.080
August 16, 2018	0.110	0.032	0.005	0.229	0.007	0.009	0.023	0.937	0.011	0.010	0.127	0.222	0.085	1.883
October 3, 2018	0.109	0.028	0.006	0.253	0.008	0.010	0.044	0.927	0.010	0.010	0.124	0.244	0.078	2.123
January 16, 2019	0.121	0.022	0.009	0.180	0.008	0.009	0.019	0.860	0.012	0.119	0.128	0.235	0.095	1.969
April 5, 2019	0.119	0.020	0.004	0.191	0.007	0.010	0.015	0.850	0.004	0.008	0.109	0.228	0.068	1.845
August 2, 2019	0.108	0.022	0.006	0.196	0.008	0.010	0.022	0.910	0.009	0.008	0.120	0.221	0.082	2.070
December 23, 2019	0.119	0.025	0.007	0.182	0.007	0.012	0.019	0.854	0.010	0.006	0.112	0.192	0.068	1.745
March 31, 2020	0.135	0.026	0.008	0.190	0.006	0.009	0.023	0.852	0.010	0.007	0.115	0.192	0.073	1.871
June 17, 2020	0.109	0.024	0.008	0.214	0.008	0.013	0.020	0.904	0.011	0.011	0.112	0.201	0.081	1.591
September 16, 2020	0.105	0.021	0.020	0.210	0.010	0.010	0.040	0.922	0.013	0.009	0.118	0.190	0.104	1.370
December 8, 2020	--	0.022	0.005	0.214	0.007	0.007	0.016	0.872	0.010	0.014	0.161	0.258	--	1.371
December 9, 2020	--	0.030	0.013	0.331	0.015	0.012	0.013	0.504	0.023	0.011	0.162	0.252	0.103	1.335
December 15, 2020	0.147	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
March 29, 2021	0.167	0.028	0.066	0.298	0.010	0.011	0.012	0.459	0.021	0.009	0.156	0.231	0.120	1.392

Zone 1: SSDS Green Line, Blower 2
Zone 2: SSDS Purple Line, Blower 2
Zone 3: SSDS Orange Line, Blower 2
Zone 4: SSDS Red Line, Blower 1
Zone 5: SSDS Blue Line, Blower 1
Zone 6: SSDS Garage Line, Garage Blower
Zone 7: SSDS Perimeter East/West Line, Garage Blower
MP2-1 installed incorrectly. Corrected on July 7, 2015
N/A: measurement was not collected, point inaccessible
Vacuum readings were previously reported in negative pressure (shown as negative value). This was corrected by reporting vacuum readings as postive values.
SSDS Zones, SSDS Monitoring Points, Influent, and K.O. reported in terms of vacuum. Effluent reported in terms of pressure.
Vacuum readings were previously reported in negative pressure (shown as negative value). This was corrected by reporting vacuum readings as postive values.

SSDS Zones, SSDS Monitoring Points, Influent, and K.O. reported in terms of vacuum. Effluent reported in terms of pressure.

ATTACHMENT 2

Factory Building SSDS As-Builts



LEGEND

- EXISTING 4" SOLID SCHEDULE 40 PVC PIPE (ZONE 1)
- EXISTING 4" SLOTTED SCHEDULE 40 PVC VAPOR COLLECTION PIPE (ZONE 1)
- EXISTING 4" SOLID SCHEDULE 40 PVC PIPE (ZONE 2)
- EXISTING 4" SLOTTED SCHEDULE 40 PVC VAPOR COLLECTION PIPE (ZONE 2)
- EXISTING 4" SOLID SCHEDULE 40 PVC PIPE (ZONE 3)
- EXISTING 4" SLOTTED SCHEDULE 40 PVC VAPOR COLLECTION PIPE (ZONE 3)
- EXISTING 4" SOLID SCHEDULE 40 PVC PIPE (ZONE 4)
- EXISTING 4" SLOTTED SCHEDULE 40 PVC VAPOR COLLECTION PIPE (ZONE 4)
- EXISTING 4" SOLID SCHEDULE 40 PVC PIPE (ZONE 5)
- EXISTING4" SLOTTED SCHEDULE 40 PVC VAPOR COLLECTION PIPE (ZONE 5)
- MP4-1 EXISTING VACUUM MONITORING POINT
- BLOWER LOCATION

AS-BUILT DRAWINGS

10' 0 10'

NO.	DATE	REVISION DESCRIPTION	INT.
2	11/25/14	AS-BUILTS	C.P.
1	2/13/13	REVISED TO SHOW NEW SYSTEM LAYOUT	C.P.

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PROJECT NAME:
FINAL ENGINEERING REPORT
BULOVA WATCH CASE FACTORY SITE NO. 152139
PROJECT FOR:
WATCHCASE FACTORY CONDOMINIUM
SAG HARBOR, NEW YORK

TITLE:
FACTORY BUILDING SSDS
AS-BUILTS

PLATE
1

ATTACHMENT 3

New Construction SSDS As-Builts

LEGEND

(cyan dashed line)	EXISTING 6" SUB-SLAB VAPOR COLLECTION PIPE
(cyan solid line)	EXISTING 6" SOLID SUB-SLAB HEADER PIPE
(green dashed line)	EXISTING 6" EXTERNAL VAPOR COLLECTION PIPE
(green solid line)	EXISTING 6" SOLID VAPOR COLLECTION PIPE HUNG FROM GARAGE CEILING
MP6-1 ●	EXISTING VACUUM MONITORING POINT
(yellow box)	BLOWER LOCATION

AS-BUILT DRAWINGS

NO.	DATE	REVISION DESCRIPTION	INT.
2	11/25/14	AS-BUILTS	C.P.
1	2/13/12	REVISED TO SHOW NEW SYSTEM LAYOUT	C.P.

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PROJECT FOR:
WATCHCASE FACTORY CONDOMINIUM
SAG HARBOR, NEW YORK

TITLE:
GARAGE SSDS AS-BUILTS

PLATE
2