Transmittal Letter



το Kevin Lin		FROM Kristoffer Hinskey
34990 Bea	acon	248-994-2240
Livonia, M	I 48150	kristoffer.hinskey@arcadis.com
	` '	DATE October 7, 2022
PROJECT NUMBER 30146655		SUBJECT Operation, Monitoring, and Maintenance Field Notes - 34990 Beacon
	ending you:	
Copies	Delivery Date	Description
1	10/11/2022	Operation, monitoring, and maintenance field notes.
☐ AN Ap	oproved oproved as Noted s Requested	☐ CR Correct and Resubmit ☐ Resubmit Copies ☐ F File ☐ Return Copies ☐ FA For Approval ☐ Review and Comment
Mailing M	ethod	
	stal Service 1 st Clas I/Registered Mail Email	Courier/Hand Delivery
Comment		
field note	s. These field not	reemptive mitigation (IPM) system Operation, Monitoring, and Maintenance (OM&M) tes were recorded during OM&M visits at the property between November 30, 2020 se let me know if you have any questions.

Created	2021-03-01 13:53:01 UTC by Seth Turner
Updated	2021-03-01 15:16:20 UTC by Andrew Banitt
General Information	
System Inspector	Seth Turner
Date	2021-03-01
Time	09:00
System Details Link	34990 Beacon
Property Address	34990 Beacon
Check Inspection(s) to be Completed	Full System Inspection
Get weather data from National Weather Service Website for your current location?	N/A
Weather	35F, sunny
Ambient Temperature	35F
Barometric Pressure	29.95
Indoor Temperature	70
Design Components	
Does the house have a basement?	Yes
Does the house have a sump?	No
Does the house have garage retrocoat?	No
Does the house have shed retrocoat?	Yes
Does the house have basement retrocoat?	Yes
Does the house have a crawlspace barrier?	Yes
Does the house have an inaccessible crawlspace?	No
Does the house have a water sensor?	Yes
System Inspection	
Fan	
Fan(s) operating?	Yes
Are there any unusual fan noises?	No
Piping	
Is any caulking required around pipe penetrations,	No
slab cracks, expansion joints, or foundation walls?	
Are piping, piping joints, and brackets intact and secure?	Yes
ls the insulation and insulation jacket damaged or missing in garage or exterior piping?	No
Valves	
Upon arrival, are all valves in the same position as	Yes

the prior visit (reference Power BI)?

Drains

Do any drain seals need to be repaired or replaced?	No			
Basement				
Is water present in the basement?	No			
Shed Retrocoat				
Is retrocoat damaged or missing?	No			
Basement Retrocoat				
Is retrocoat damaged or missing?	No			
Crawlspace Barrier				
Is water present on the vapor barrier?	No			
Water Sensor				

Labels

Are labels present at the pipe, control panel, utube, and breaker?

Yes

2021-03-01

Common Label Photos

Last Battery Replacement Date



Are labels present at the basement retrocoat?

Yes

Basement Retrocoat Label Photos



Are labels present at the shed retrocoat?

Shed Retrocoat Label Photos

Yes





Vacuum Monitoring

Yes
Yes
No
N/A

Inspection Measurements

Pre-Measurement Conditions

Are vacuum readings being taken under closed building conditions?	Yes
Do any monitoring points have transmitters?	Yes

Mp-7

Monitoring Point with Transmitter?	Mp-7
Transmitter Ambient Reading (iwc, transmitter inlet tubing disconnected)	0
Transmitter Reading (iwc, with fan operating)	-0.017
Micromanometer Ambient Reading (iwc, transmitter inlet tubing disconnected)	0

Micromanometer Fan Reading (iwc, with fan operating)	-0.016
Calibration Calc	0.001
Transmitter off by >0.0003, recalibrate/fix transm	nitter

Measurements and Valve Positions

U-Tube Manometer,	09:06.	-0.8
o-rube mariorileter.	02.00.	-U.U

Vacuum ID Link	34990 Beacon, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-03-01
Time	09:06
Vacuum Reading (in. w.c.)	-0.8
Number Vacuum Reading	-0.8

MP-5, 09:06, -0.043

Vacuum ID Link	34990 Beacon, MP-5
Vacuum ID	MP-5
Date	2021-03-01
Time	09:06
Vacuum Reading (in. w.c.)	-0.043
Number Vacuum Reading	-0.043

MP-6, 09:07, -0.081

Vacuum ID Link	34990 Beacon, MP-6
Vacuum ID	MP-6
Date	2021-03-01
Time	09:07
Vacuum Reading (in. w.c.)	-0.081
Number Vacuum Reading	-0.081

MP-4, 09:07, -0.022

Vacuum ID Link	34990 Beacon, MP-4
Vacuum ID	MP-4
Date	2021-03-01
Time	09:07
Vacuum Reading (in. w.c.)	-0.022
Number Vacuum Reading	-0.022

MP-7, 09:08, -0.020

Vacuum ID Link	34990 Beacon, MP-7
Vacuum ID	MP-7
Date	2021-03-01
Time	09:08
Vacuum Reading (in. w.c.)	-0.020
Number Vacuum Reading	-0.02

MP-3, 09:14, -0.053	MP-3	. 09:14.	-0.053
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Vacuum ID Link	34990 Beacon, MP-3
Vacuum ID	MP-3
Date	2021-03-01
Time	09:14
Vacuum Reading (in. w.c.)	-0.053
Number Vacuum Reading	-0.053

MP-1, 09:14, -0.018

Vacuum ID Link	34990 Beacon, MP-1
Vacuum ID	MP-1
Date	2021-03-01
Time	09:14
Vacuum Reading (in. w.c.)	-0.018
Number Vacuum Reading	-0.018

MP-2, 09:14, -0.038

Vacuum ID Link	34990 Beacon, MP-2
Vacuum ID	MP-2
Date	2021-03-01
Time	09:14
Vacuum Reading (in. w.c.)	-0.038
Number Vacuum Reading	-0.038

MP-7, 09:21, -0.015

Vacuum ID Link	34990 Beacon, MP-7
Vacuum ID	MP-7
Date	2021-03-01
Time	09:21
Vacuum Reading (in. w.c.)	-0.015
Number Vacuum Reading	-0.015

MP-1, 09:22, -0.022

Vacuum ID Link	34990 Beacon, MP-1
Vacuum ID	MP-1
Date	2021-03-01
Time	09:22
Vacuum Reading (in. w.c.)	-0.022
Number Vacuum Reading	-0.022

MP-5, 09:24, -0.042

Vacuum ID Link	34990 Beacon, MP-5
Vacuum ID	MP-5
Date	2021-03-01
Time	09:24
Vacuum Reading (in. w.c.)	-0.042

Number Vacuum Reading	-0.042
MP-4, 09:24, -0.024	
Vacuum ID Link	34990 Beacon, MP-4
Vacuum ID	MP-4
Date	2021-03-01
Time	09:24
Vacuum Reading (in. w.c.)	-0.024
Number Vacuum Reading	-0.024
MP-6, 09:25, -0.083	
Vacuum ID Link	34990 Beacon, MP-6
Vacuum ID	MP-6
Date	2021-03-01
Time	09:25
Vacuum Reading (in. w.c.)	-0.083
Number Vacuum Reading	-0.083
MP-7, 09:25, -0.016	
Vacuum ID Link	34990 Beacon, MP-7
Vacuum ID	MP-7
Date	2021-03-01
Time	09:25
Vacuum Reading (in. w.c.)	-0.016
Number Vacuum Reading	-0.016
MP-3, 09:26, -0.054	
Vacuum ID Link	34990 Beacon, MP-3
Vacuum ID	MP-3
Date	2021-03-01
Time	09:26
Vacuum Reading (in. w.c.)	-0.054
Number Vacuum Reading	-0.054
MP-2, 09:28, -0.039	
Vacuum ID Link	34990 Beacon, MP-2
Vacuum ID	MP-2
Date	2021-03-01
Time	09:28
Vacuum Reading (in. w.c.)	-0.039
Number Vacuum Reading	-0.039
U-Tube Manometer, 09:29, -0.9	
Vacuum ID Link	34990 Beacon, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-03-01
	

Time	09:29
Vacuum Reading (in. w.c.)	-0.9
Number Vacuum Reading	-0.9
BV-4, 09:09, 100	
Valve ID Link	34990 Beacon, BV-4
Valve ID	BV-4
Date	2021-03-01
Time	09:09
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100
BV-5, 09:10, 80	
Valve ID Link	34990 Beacon, BV-5
Valve ID	BV-5
Date	2021-03-01
Time	09:10
Valve Position at Arrival (% Open)	80
Valve Position at Departure (% Open)	80
BV-6, 09:11, 100	
Valve ID Link	34990 Beacon, BV-6
Valve ID	BV-6
Date	2021-03-01
Time	09:11
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100
BV-3, 09:12, 10	
Valve ID Link	34990 Beacon, BV-3
Valve ID	BV-3
Date	2021-03-01
Time	09:12
Valve Position at Arrival (% Open)	10
Valve Position at Departure (% Open)	10
BV-2, 09:15, 80	
Valve ID Link	34990 Beacon, BV-2
Valve ID	BV-2
Date	2021-03-01
Time	09:15
Valve Position at Arrival (% Open)	80
Valve Position at Departure (% Open)	80
BV-1, 09:17, 100 Valve ID Link	34990 Beacon, BV-1
VALVE ID LIIIK	STOOL DEACOILY DY-1

BV-1
2021-03-01
09:17
100
100
No
Yes
No
Yes
Yes
Yes
N/A
Yes
Yes
Yes
No
Yes
N/A
No
No
No
No

Have any structures been built or modified that require vapor mitigation?

No

Engineer Notification

Send Inspection Completion Email	N/A

email body

Engineer Notification

Send Inspection Completion Email - add any repairs, repair needs, or critical communications in email text

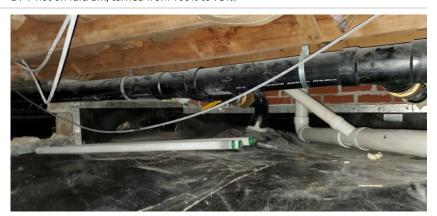
N/A

email body

Additional Notes and Photos

Notes BV-7 not on fulcrum, turned from 100% to 75%.

Photos



Created	2022-01-20 12:54:17 UTC by Seth Turner
Updated	2022-01-20 14:06:41 UTC by Seth Turner
General Information	
System Inspector	Seth Turner
Date	2022-01-20
Time	07:54
System Details Link	34990 Beacon
Property Address	34990 Beacon
Check Inspection(s) to be Completed	Full System Inspection
Get weather data from National Weather Service Website for your current location?	N/A
Weather	17F, clear
Ambient Temperature	17F
Barometric Pressure	29.72
Indoor Temperature	70
Design Components	
Does the house have a basement?	Yes
Does the house have a sump?	No
Does the house have garage retrocoat?	No
Does the house have shed retrocoat?	Yes
Does the house have basement retrocoat?	Yes
Does the house have a crawlspace barrier?	Yes
Does the house have an inaccessible crawlspace?	No
Does the house have a water sensor?	Yes
System Inspection	
Fan(s) operating?	Yes
Are there any unusual fan noises?	No
Piping	
ls any caulking required around pipe penetrations, slab cracks, expansion joints, or foundation walls?	No
Are piping, piping joints, and brackets intact and secure?	Yes
ls the insulation and insulation jacket damaged or missing in garage or exterior piping?	No
Valves	
Upon arrival, are all valves in the same position as	Yes

the prior visit (reference Power BI)?

Drains

Do any drain seals need to be repaired or No replaced?

Basement

Is water present in the basement?

Shed Retrocoat

Is retrocoat damaged or missing?

Basement Retrocoat

Is retrocoat damaged or missing?

Crawlspace Barrier

Is water present on the vapor barrier?

Water Sensor

Last Battery Replacement Date 2022-01-20

Labels

Are labels present at the pipe, control panel, u-

tube, and breaker?

Yes

Common Label Photos



Are labels present at the basement retrocoat?

Yes

Basement Retrocoat Label Photos



Are labels present at the shed retrocoat?

Shed Retrocoat Label Photos





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Is the u-tube accurate (test with micromanometer/manometer, rezero/replace as needed)?	Yes
Is the vacuum switch accurate (test with micromanometer)?	Yes
Do any monitoring points (MP/SSMP) need to be repaired or replaced?	No
If multiple systems are present, were both inspected?	N/A

Inspection Measurements

Pre-Measurement Conditions

Are vacuum readings being taken under closed building conditions?	Yes
Do any monitoring points have transmitters?	Yes

MP-7

Monitoring Point with Transmitter?	MP-7
Transmitter Ambient Reading (iwc, transmitter inlet tubing disconnected)	0
Transmitter Reading (iwc, with fan operating)	-0.017
Micromanometer Ambient Reading (iwc, transmitter inlet tubing disconnected)	0

Micromanometer Fan Reading (iwc, with fan operating)	-0.017		
Calibration Calc	0		
Transmitter off by >0.0003, recalibrate/fix transmitter			

Measurements and Valve Positions

MP-5, 08:10	0.038
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Vacuum ID Link	34990 Beacon, MP-5
Vacuum ID	MP-5
Date	2022-01-20
Time	08:10
Vacuum Reading (in. w.c.)	-0.038
Number Vacuum Reading	-0.038

MP-4, 08:12, -0.025

Vacuum ID Link	34990 Beacon, MP-4
Vacuum ID	MP-4
Date	2022-01-20
Time	08:12
Vacuum Reading (in. w.c.)	-0.025
Number Vacuum Reading	-0.025

MP-6, 08:14, -0.087

Vacuum ID Link	34990 Beacon, MP-6
Vacuum ID	MP-6
Date	2022-01-20
Time	08:14
Vacuum Reading (in. w.c.)	-0.087
Number Vacuum Reading	-0.087

U-Tube Manometer, 08:15, -1.1

Vacuum ID Link	34990 Beacon, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-01-20
Time	08:15
Vacuum Reading (in. w.c.)	-1.1
Number Vacuum Reading	-1.1

MP-7, 08:15, -0.016

Vacuum ID Link	34990 Beacon, MP-7
Vacuum ID	MP-7
Date	2022-01-20
Time	08:15
Vacuum Reading (in. w.c.)	-0.016
Number Vacuum Reading	-0.016

MP-1,	08:17,	-0.021

Vacuum ID Link	34990 Beacon, MP-1
Vacuum ID	MP-1
Date	2022-01-20
Time	08:17
Vacuum Reading (in. w.c.)	-0.021
Number Vacuum Reading	-0.021

MP-2, 08:21, -0.037

Vacuum ID Link	34990 Beacon, MP-2
Vacuum ID	MP-2
Date	2022-01-20
Time	08:21
Vacuum Reading (in. w.c.)	-0.037
Number Vacuum Reading	-0.037

MP-3, 08:22, -0.053

Vacuum ID Link	34990 Beacon, MP-3
Vacuum ID	MP-3
Date	2022-01-20
Time	08:22
Vacuum Reading (in. w.c.)	-0.053
Number Vacuum Reading	-0.053

MP-5, 08:34, -0.037

Vacuum ID Link	34990 Beacon, MP-5
Vacuum ID	MP-5
Date	2022-01-20
Time	08:34
Vacuum Reading (in. w.c.)	-0.037
Number Vacuum Reading	-0.037

MP-4, 08:34, -0.027

Vacuum ID Link	34990 Beacon, MP-4
Vacuum ID	MP-4
Date	2022-01-20
Time	08:34
Vacuum Reading (in. w.c.)	-0.027
Number Vacuum Reading	-0.027

MP-6, 08:34, -0.086

Vacuum ID Link	34990 Beacon, MP-6
Vacuum ID	MP-6
Date	2022-01-20
Time	08:34
Vacuum Reading (in. w.c.)	-0.086

Date

Number Vacuum Reading	-0.086
U-Tube Manometer, 08:35, -1	.1
Vacuum ID Link	34990 Beacon, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-01-20
Time	08:35
Vacuum Reading (in. w.c.)	-1.1
Number Vacuum Reading	-1.1
MP-7, 08:35, -0.017	
Vacuum ID Link	34990 Beacon, MP-7
Vacuum ID	MP-7
Date	2022-01-20
Time	08:35
Vacuum Reading (in. w.c.)	-0.017
Number Vacuum Reading	-0.017
MP-1, 08:35, -0.024	
Vacuum ID Link	34990 Beacon, MP-1
Vacuum ID	MP-1
Date	2022-01-20
Time	08:35
Vacuum Reading (in. w.c.)	-0.024
Number Vacuum Reading	-0.024
MP-2, 08:36, -0.038	
Vacuum ID Link	34990 Beacon, MP-2
Vacuum ID	MP-2
Date	2022-01-20
Time	08:36
Vacuum Reading (in. w.c.)	-0.038
Number Vacuum Reading	-0.038
MP-3, 08:36, -0.055	
Vacuum ID Link	34990 Beacon, MP-3
Vacuum ID	MP-3
Date	2022-01-20
Time	08:36
Vacuum Reading (in. w.c.)	-0.055
Number Vacuum Reading	-0.055
BV-4, 08:25, 100	
Valve ID Link	34990 Beacon, BV-4
Valve ID	BV-4

2022-01-20

Time	08:25
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100
DV E 00:26 90	
BV-5, 08:26, 80 Valve ID Link	24000 Passan PV E
	34990 Beacon, BV-5
Valve ID	BV-5
Date	2022-01-20
Time	08:26
Valve Position at Arrival (% Open)	80
Valve Position at Departure (% Open)	80
BV-6, 08:27, 100	
Valve ID Link	34990 Beacon, BV-6
Valve ID	BV-6
Date	2022-01-20
Time	08:27
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100
BV-3, 08:30, 10	
Valve ID Link	34990 Beacon, BV-3
Valve ID	BV-3
Date	2022-01-20
Time	08:30
Valve Position at Arrival (% Open)	10
Valve Position at Departure (% Open)	10
BV-2, 08:31, 80	
Valve ID Link	34990 Beacon, BV-2
Valve ID	BV-2
Date	2022-01-20
Time	08:31
Valve Position at Arrival (% Open)	80
Valve Position at Departure (% Open)	80
BV-1, 09:35, 100	
Valve ID Link	34990 Beacon, BV-1
Valve ID	BV-1
Date	2022-01-20
Time	09:35
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100
Were interim vacuum readings taken between initial and final vacuum readings?	No

Inspection Reading Analysis

M	a	n	0	m	eŧ	e	r

Sealing Completion Date

Yes
No
No
MP-7, has a transmitter.
Transmitter is installed on MP-7.
No
N/A
Yes
Yes
Yes
No
N/A
N/A
Yes
No
Seams were repaired where tape was lifting.

2022-01-20





Are there outstanding repairs to be completed?

No

Owner/Tenant Observations

Have there been any changes to the fan noise level	No
or vibration?	
Have any structures been built or modified that	Nic

require vapor mitigation?

No

Engineer Notification

Send Inspection Completion Email	N/A
email body	

Engineer Notification

Send Inspection Completion Email - add any
repairs, repair needs, or critical communications in
email text

N/A

Additional Notes and Photos

Photos









