Transmittal Letter



то		FROM
Julian Ray	and Kesley Ben	to Kristoffer Hinskey
34940 Bea	acon	248-994-2240
Livonia, M	I 48150	kristoffer.hinskey@arcadis.com
	ic copies to chlaufman (EGLE	DATE October 4, 2022
Todd Walt) October 4, 2022
Chuck Pin	, ,	
	, ,	
PROJECT N 30146655	_	SUBJECT Operation, Monitoring, and
30140033		Maintenance Field Notes - 34940 Beacon
We are se	ending you:	
Copies	Delivery Date	Description
1	10/6/2022	Operation, monitoring, and maintenance field notes.
Action*		
□ A Ap	proved	☐ CR Correct and Resubmit ☐ Resubmit Copies
-	proved as Noted	☐ F File ☐ Return Copies
-	Requested	☐ FA For Approval ☐ Review and Comment
Other:		
Mailing M	ethod	
U.S. Pos	stal Service 1 st Clas	ss Courier/Hand Delivery FedEx Priority Overnight FedEx 2-Day Delivery
	l/Registered Mail	☐ United Parcel Service (UPS) ☒ FedEx Standard Overnight ☐ FedEx Economy
Other:_I	Email	
_		
Comment	s:	
	•	reemptive mitigation (IPM) system Operation, Monitoring, and Maintenance (OM&M)
		tes were recorded during OM&M visits at the property between March 31, 2020 and
March 31, 2022. Arcadis is working with the Retro-Coat [™] manufacturer to address the damage observed on		
the basement floor. Follow up resolution will be documented under separate cover. Please let me know if you		
have any	questions.	

Created	2021-02-26 16:39:04 UTC by Seth Turner
Updated	2021-02-26 17:57:48 UTC by Andrew Banitt
General Information	
System Inspector	Seth Turner
Date	2021-02-26
Time	12:00
System Details Link	34940 Beacon
Property Address	34940 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	25f cloudy
Ambient Temperature	25f
Barometric Pressure	29.98
Indoor Temperature	70
Design Components	
Does the house have a basement?	Yes
Does the house have a sump?	Yes
Does the house have garage retrocoat?	No
Does the house have shed retrocoat?	No
Does the house have basement retrocoat?	Yes
Does the house have a crawlspace barrier?	No
Does the house have an inaccessible crawlspace?	No
Does the house have a water sensor?	No
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

Sumps

Is the sump full/evidence pump is broken?

Was the owner notified?

No

Basement Retrocoat

Is retrocoat damaged or missing?

Labels

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

Yes

Common Label Photos



Are labels present at the sump?

Yes

Sump Label Photos



Are labels present at the basement retrocoat?

Yes

Basement Retrocoat Label Photos



Pre-Measurement Conditions

Are vacuum readings being taken under closed	Yes
building conditions?	
Do any monitoring points have transmitters?	No

Measurements and Valve Positions

SSMP-1, 12:04, -0.395

Vacuum ID Link	34940 Beacon, SSMP-1
Vacuum ID	SSMP-1
Date	2021-02-26
Time	12:04
Vacuum Reading (in. w.c.)	-0.395
Number Vacuum Reading	-0.395

U-Tube Manometer, 12:05, -3.8

Vacuum ID Link	34940 Beacon, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-02-26
Time	12:05
Vacuum Reading (in. w.c.)	-3.8
Number Vacuum Reading	-3.8

SSMP-2, 12:06, -0.014

Vacuum ID Link	34940 Beacon, SSMP-2
Vacuum ID	SSMP-2
Date	2021-02-26
Time	12:06
Vacuum Reading (in. w.c.)	-0.014
Number Vacuum Reading	-0.014

SSMP-3, 12:10, -0.055

Vacuum ID Link	34940 Beacon, SSMP-3
Vacuum ID	SSMP-3
Date	2021-02-26
Time	12:10

Vacuum Reading (in. w.c.)	-0.055
Number Vacuum Reading	-0.055
MP-1, 12:11, -0.230	
Vacuum ID Link	34940 Beacon, MP-1
Vacuum ID	MP-1
Date	2021-02-26
Time	12:11
Vacuum Reading (in. w.c.)	-0.230
Number Vacuum Reading	-0.23
MP-1, 12:13, -0.070	
Vacuum ID Link	34940 Beacon, MP-1
Vacuum ID	MP-1
Date	2021-02-26
Time	12:13
Vacuum Reading (in. w.c.)	-0.070
Number Vacuum Reading	-0.07
SSMP-2, 12:24, -0.024	
Vacuum ID Link	34940 Beacon, SSMP-2
Vacuum ID	SSMP-2
Date	2021-02-26
Time	12:24
Vacuum Reading (in. w.c.)	-0.024
Number Vacuum Reading	-0.024
SSMP-2, 12:39, -0.025	
Vacuum ID Link	34940 Beacon, SSMP-2
Vacuum ID	SSMP-2
Date	2021-02-26
Time	12:39
Vacuum Reading (in. w.c.)	-0.025
Number Vacuum Reading	-0.025
SSMP-1, 12:40, -0.480	
Vacuum ID Link	34940 Beacon, SSMP-1
Vacuum ID	SSMP-1
Date	2021-02-26
Time	12:40
Vacuum Reading (in. w.c.)	-0.480
Number Vacuum Reading	-0.48
U-Tube Manometer, 12:40, -4.8	
Vacuum ID Link	34940 Beacon, U-Tube Manometer

Date	2021-02-26
Time	12:40
Vacuum Reading (in. w.c.)	-4.8
Number Vacuum Reading	-4.8
MP-1, 12:40, -0.095	
Vacuum ID Link	34940 Beacon, MP-1
Vacuum ID	MP-1
Date	2021-02-26
Time	12:40
Vacuum Reading (in. w.c.)	-0.095
Number Vacuum Reading	-0.095
SSMP-3, 12:41, -0.042	
Vacuum ID Link	34940 Beacon, SSMP-3
Vacuum ID	SSMP-3
Date	2021-02-26
Time	12:41
Vacuum Reading (in. w.c.)	-0.042
Number Vacuum Reading	-0.042
DV 1 12:00 15	
BV-1, 12:00, 15 Valve ID Link	34940 Beacon, BV-1
Valve ID	BV-1
Date	2021-02-26
Time	12:00
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	15
valve i ostaon at Departure (% Open)	15
BV-2, 12:08, 10	
Valve ID Link	34940 Beacon, BV-2
Valve ID	BV-2
Date	2021-02-26
Time	12:08
Valve Position at Arrival (% Open)	15
Valve Position at Departure (% Open)	10
BV-3, 12:08, 100	
Valve ID Link	34940 Beacon, BV-3
Valve ID	BV-3
Date	2021-02-26
Time	12:08
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100
Were interim vacuum readings taken between	No
initial and final vacuum readings?	

Inspection Reading Analysis

Manometer	
Is the system manometer steady?	Yes
SSMP/MPs	
Were any vacuum monitoring points not accessible? Please specify.	No
Do all vacuum monitoring points meet -0.02 in w.c. threshold?	Yes
Were any ball valve positions changed?	Yes
Did you take final readings?	Yes
Alarm Testing	
Sensaphone Link	N/A
Does the vacuum switch alarm work? Test the alarm condition and verify an alarm registers.	Yes
Does the fan disconnect alarm work? Test the alarm condition and verify an alarm registers.	Yes
Does the transmitter alarm work? Test the alarm condition and verify an alarm registers.	N/A
Check the alarm history on the disconnect for the fan. Was it off for any length of time?	No
Is the cloud logging vacuum readings properly (log in to check)?	N/A
Repairs	
Sample Delay	
Send Sample Delay Email	N/A
email body	
Repair Completion	
Were seam repairs completed during this visit?	No
Were system repairs completed during this visit?	Yes
System repairs completed:	Fan cleaned
System Repair Completion Date	2021-02-26

Are there outstanding repairs to be completed?	No
Owner/Tenant Observations	
Have there been any changes to the fan noise level or vibration?	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	

Created	2022-02-01 13:14:25 UTC by Seth Turner
Updated	2022-02-01 14:29:21 UTC by Seth Turner
General Information	
System Inspector	Seth Turner
Date	2022-02-01
Time	08:14
System Details Link	34940 Beacon
Property Address	34940 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	25F,
Ambient Temperature	25
Barometric Pressure	29.97
Indoor Temperature	70
Design Components	
Does the house have a basement?	Yes
Does the house have a sump?	Yes
Does the house have garage retrocoat?	No
Does the house have shed retrocoat?	No
Does the house have basement retrocoat?	Yes
Does the house have a crawlspace barrier?	No
Does the house have an inaccessible crawlspace?	No
Does the house have a water sensor?	No
System Inspection	
Fan	
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

Drains

Valves

Upon arrival, are all valves in the same position as

the prior visit (reference Power BI)?

Do any drain seals need to be repaired or replaced?

No

Basement

Is water present in the basement?

Sumps

Is the sump full/evidence pump is broken?

No

Was the owner notified?

No

Basement Retrocoat

Is retrocoat damaged or missing?

Where is retrocoat damaged? Center of basement

Retrocoat damage



Labels

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

Yes

Common Label Photos



Are labels present at the sump?

Yes

Sump Label Photos



Are labels present at the basement retrocoat?

Yes

Basement Retrocoat Label Photos



Vacuum Monitoring

Is the u-tube accurate (test with micromanometer/manometer, rezero/replace as needed)?	Yes
ls 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?	No
Measurements and Valve Positions	

U-Tube	Manometer	, 08:16	, -4.9
--------	-----------	---------	--------

Vacuum ID Link	34940 Beacon, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-02-01
Time	08:16
Vacuum Reading (in. w.c.)	-4.9
Number Vacuum Reading	-4.9

MP-1, 08:18, -0.065

Vacuum ID Link	34940 Beacon, MP-1
Vacuum ID	MP-1
Date	2022-02-01
Time	08:18
Vacuum Reading (in. w.c.)	-0.065
Number Vacuum Reading	-0.065

SSMP-3, 08:29, -0.028

Vacuum ID Link	34940 Beacon, SSMP-3
Vacuum ID	SSMP-3
Date	2022-02-01
Time	08:29
Vacuum Reading (in. w.c.)	-0.028
Number Vacuum Reading	-0.028

SSMP-2, 08:29, -0.021

Vacuum ID Link	34940 Beacon, SSMP-2
Vacuum ID	SSMP-2
Date	2022-02-01
Time	08:29
Vacuum Reading (in. w.c.)	-0.021
Number Vacuum Reading	-0.021

SSMP-1, 08:35, -0.336

Vacuum ID Link	34940 Beacon, SSMP-1
Vacuum ID	SSMP-1
Date	2022-02-01
Time	08:35
Vacuum Reading (in. w.c.)	-0.336
Number Vacuum Reading	-0.336

U-Tube Manometer, 09:10, -4.9

Vacuum ID Link	34940 Beacon, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-02-01
Time	09:10
Vacuum Reading (in. w.c.)	-4.9
Number Vacuum Reading	-4.9
MP-1, 09:10, -0.068	
Vacuum ID Link	34940 Beacon, MP-1
Vacuum ID	MP-1
Date	2022-02-01
Time	09:10
Vacuum Reading (in. w.c.)	-0.068
Number Vacuum Reading	-0.068
SSMP-3, 09:10, -0.031	
Vacuum ID Link	34940 Beacon, SSMP-3
Vacuum ID	SSMP-3
Date	2022-02-01
Time	09:10
Vacuum Reading (in. w.c.)	-0.031
Number Vacuum Reading	-0.031
SSMP-2, 09:10, -0.025	
Vacuum ID Link	34940 Beacon, SSMP-2
Vacuum ID	SSMP-2
Date	2022-02-01
Time	09:10
Vacuum Reading (in. w.c.)	-0.025
Number Vacuum Reading	-0.025
SSMP-1, 09:11, -0.342	
Vacuum ID Link	34940 Beacon, SSMP-1
Vacuum ID	SSMP-1
Date	2022-02-01
Time	09:11
Vacuum Reading (in. w.c.)	-0.342
Number Vacuum Reading	-0.342
BV-1, 08:35, 15	
Valve ID Link	34940 Beacon, BV-1
Valve ID	BV-1
Date	2022-02-01
Time	08:35
Valve Position at Arrival (% Open)	15
Valve Position at Departure (% Open)	15

BV-2, 08:35, 10

Valve ID Link	34940 Beacon, BV-2
Valve ID	BV-2
Date	2022-02-01
Time	08:35
Valve Position at Arrival (% Open)	10
Valve Position at Departure (% Open)	10

BV-3, 08:35, 100

Valve ID Link	34940 Beacon, BV-3
Valve ID	BV-3
Date	2022-02-01
Time	08:35
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

Manometer

Is the system manometer steady? Yes

SSMP/MPs

Were any vacuum monitoring points not accessible? Please specify.

Do all vacuum monitoring points meet -0.02 in w.c. Yes threshold?

Were any ball valve positions changed?

No

Alarm Testing

Sensaphone Link	N/A
Does the vacuum switch alarm work? Test the alarm condition and verify an alarm registers.	Yes
Does the fan disconnect alarm work? Test the alarm condition and verify an alarm registers.	Yes
Does the transmitter alarm work? Test the alarm condition and verify an alarm registers.	N/A
Check the alarm history on the disconnect for the fan. Was it off for any length of time?	No
Is the cloud logging vacuum readings properly (log in to check)?	N/A

Repairs

Sample Delay

Send Sample Delay Email	N/A	
email body		

Repa	air (om	ıple	tion

Repair Status	Basement retrocoat.
Are there outstanding repairs to be completed?	Yes
Were system repairs completed during this visit?	No
Were seam repairs completed during this visit?	No

Owner/Tenant Observations

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

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	