Transmittal Letter



	Robin Burns	FROM Kristoffer Hinskey	
34450 Cap	oitol	248-994-2240	
Livonia, M	l 48150	kristoffer.hinskey@arcadis.com	
		DATE October 5, 2022	
PROJECT NUMBER 30146655		SUBJECT Operation, Monitoring, and Maintenance Field Notes -34450 Capitol	
We are se	nding you:		
Copies	Delivery Date	Description	
1	10/6/2022	Operation, monitoring, and maintenance field notes.	
☐ AN Ap	pproved proved as Noted Requested	□ CR Correct and Resubmit □ Resubmit Copies □ F File □ Return Copies □ FA For Approval □ Review and Comment	
Mailing Method ☐ U.S. Postal Service 1 st Class ☐ Courier/Hand Delivery ☐ FedEx Priority Overnight ☐ FedEx 2-Day Delivery ☐ Certified/Registered Mail ☐ United Parcel Service (UPS) ☐ FedEx Standard Overnight ☐ FedEx Economy ☐ Other: Email			
Comment	s:		
Attached are the interim preemptive mitigation (IPM) system Operation, Monitoring, and Maintenance (OM&M) field notes. These field notes were recorded during OM&M visits at the property between October 31, 2020 and March 31, 2022. Please let me know if you have any questions.			

34450 Capitol, 2020-12-01, System Check

Created	2020-12-01 14:11:17 UTC by Emma Witherspoon
Updated	2020-12-01 16:05:54 UTC by Emma Witherspoon

General Information

System Inspector	Emma Witherspoon
Date	2020-12-01
Time	09:11
System Details Link	34450 Capitol
Property Address	34450 Capitol
Check Inspection(s) to be Completed	System Check
Get weather data from National Weather Service Website for your current location?	N/A
Weather	Light Snow and Fog/Mist
Ambient Temperature	26.06
Barometric Pressure	29.77
Indoor Temperature	26

Inspection Measurements

Pre-Measurement Conditions

Are vacuum readings being taken under closed building conditions?

Yes

Measurements and Valve Positions

MP-3, 09:12, -0.219

Vacuum ID Link	34450 Capitol, MP-3
Vacuum ID	MP-3
Date	2020-12-01
Time	09:12
Vacuum Reading (in. w.c.)	-0.219
Number Vacuum Reading	-0.219

MP-4, 09:16, -0.165

Vacuum ID Link	34450 Capitol, MP-4
Vacuum ID	MP-4
Date	2020-12-01
Time	09:16
Vacuum Reading (in. w.c.)	-0.165
Number Vacuum Reading	-0.165

MP-2, 09:16, -0.197

Vacuum ID Link	34450 Capitol, MP-2
Vacuum ID	MP-2
Date	2020-12-01
Time	09:16

Vacuum Reading (in. w.c.)	-0.197
Number Vacuum Reading	-0.197
MP-5, 09:17, -0.435	
Vacuum ID Link	34450 Capitol, MP-5
Vacuum ID	MP-5
Date	2020-12-01
Time	09:17
Vacuum Reading (in. w.c.)	-0.435
Number Vacuum Reading	-0.435
MD 1 00:17 0 100	
MP-1, 09:17, -0.183 Vacuum ID Link	34450 Capitol, MP-1
Vacuum ID	MP-1
Date	2020-12-01
Time	09:17
Vacuum Reading (in. w.c.)	-0.183
Number Vacuum Reading	-0.183
Number vacuum Reading	-0.103
U-Tube Manometer, 09:18, -1.6	
Vacuum ID Link	34450 Capitol, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2020-12-01
Time	09:18
Vacuum Reading (in. w.c.)	-1.6
Number Vacuum Reading	-1.6
MP-3, 10:39,236	
Vacuum ID Link	34450 Capitol, MP-3
Vacuum ID	MP-3
Date	2020-12-01
Time	10:39
Vacuum Reading (in. w.c.)	236
Number Vacuum Reading	-0.236
MD 4 10:20 0 170	
MP-4, 10:39, -0.179 Vacuum ID Link	34450 Capitol, MP-4
Vacuum ID	MP-4
Date	2020-12-01
Time	10:39
Vacuum Reading (in. w.c.)	-0.179
Number Vacuum Reading	-0.179
Transcr vacaum reading	3.173
MP-2, 10:39, -0.221	
Vacuum ID Link	34450 Capitol, MP-2
Vacuum ID	

Vacuum Reading (in. w.c.) 40.221 Number Vacuum Reading 40.221 MP-5, 10:40, -0.445 34450 Capitol, MP-5 Vacuum ID Link 34450 Capitol, MP-5 Date 2020-12-01 Time 1040 Vacuum Reading (in. w.c.) -0.445 Number Vacuum Reading -0.445 Wacuum ID Unik 34450 Capitol, MP-1 Vacuum ID Link 34450 Capitol, MP-1 Vacuum Reading (in. w.c.) -0.193 Vacuum Reading (in. w.c.) -0.193 Vacuum Reading (in. w.c.) -0.193 U-Tube Manometer, 10:41, -1.6 Vacuum Reading (in. w.c.) Vacuum ID Link 34450 Capitol, U-Tube Manometer Vacuum ID Link 34450 Capitol, U-Tube Manometer Vacuum ID Link 34450 Capitol, U-Tube Manometer Vacuum Reading (in. w.c.) -1.6 Number Vacuum Reading -1.6 Number Vacuum Reading -1.6 Number Vacuum Reading -1.6 Number Vacuum Reading -1.6 Were Interim vacuum readings taken between initial and final vacuum readings taken between initial and final vacuum readings <th>Date</th> <th>2020-12-01</th>	Date	2020-12-01
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Manometer Is the system manometer steady? SSMP/MPs Were any vacuum monitoring points not accessible? Please specify. Do all vacuum monitoring points meet -0.02 in w.c. Yes	Were interim vacuum readings taken between initial and final vacuum readings?	No
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Were any vacuum monitoring points not N/A accessible? Please specify. Do all vacuum monitoring points meet -0.02 in w.c. Yes	Is the system manometer steady?	Yes
accessible? Please specify. Do all vacuum monitoring points meet -0.02 in w.c. Yes	SSMP/MPs	
	Were any vacuum monitoring points not accessible? Please specify.	N/A
	Do all vacuum monitoring points meet -0.02 in w.c. threshold?	Yes

Were any ball valve positions changed?	No
Alarm Testing	
Sensaphone Link	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?	No
Are there outstanding repairs to be completed?	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	

34450 Capitol, 2021-03-11, Full System Inspection		
Created	2021_03_11_17:04:08 LITC by Emma Witherspoon	

Created	2021-03-11 17.04.06 OTC by Effilia Witherspoon
Updated	2021-03-11 17:32:02 UTC by Emma Witherspoon

General Information

System Inspector	Emma Witherspoon
Date	2021-03-11
Time	12:04
System Details Link	34450 Capitol
Property Address	34450 Capitol
Check Inspection(s) to be Completed	Full System Inspection
Get weather data from National Weather Service Website for your current location?	N/A
Weather	Cloudy
Ambient Temperature	66.02
Barometric Pressure	29.92
Indoor Temperature	70

Design Components

i	
Does the house have a basement?	No
Does the house have a sump?	No
Does the house have garage retrocoat?	No
Does the house have shed retrocoat?	No
Does the house have basement retrocoat?	No
Does the house have a crawlspace barrier?	Yes
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, slab cracks, expansion joints, or foundation walls?	No
Are piping, piping joints, and brackets intact and secure?	Yes
Is 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

Crawlspace Barrier

Is water present on the vapor barrier?

No

Labels

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

Yes

Common Label Photos



Are labels present at the crawlspace barrier?

Yes

Barrier Label Photos



Vacuum Monitoring

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?	No
Measurements and Valve Positions	
U-Tube Manometer, 12:13, -1.6	
Vacuum ID Link	34450 Capitol, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-03-11
Time	12:13
Vacuum Reading (in. w.c.)	-1.6
Number Vacuum Reading	-1.6
MP-4, 12:18, -0.181	
Vacuum ID Link	34450 Capitol, MP-4
Vacuum ID	MP-4
Date	2021-03-11
Time	12:18
Vacuum Reading (in. w.c.)	-0.181
Number Vacuum Reading	-0.181
MP-3, 12:19, -0.236	
Vacuum ID Link	34450 Capitol, MP-3
Vacuum ID	MP-3
Date	2021-03-11
Time	12:19
Vacuum Reading (in. w.c.)	-0.236
Number Vacuum Reading	-0.236
MP-2, 12:19, -0.215	
Vacuum ID Link	34450 Capitol, MP-2
Vacuum ID	MP-2
Date	2021-03-11
Time	12:19
Vacuum Reading (in. w.c.)	-0.215
Number Vacuum Reading	-0.215

MP-5.	12:20,	-0.497
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Vacuum ID Link	34450 Capitol, MP-5
Vacuum ID	MP-5
Date	2021-03-11
Time	12:20
Vacuum Reading (in. w.c.)	-0.497
Number Vacuum Reading	-0.497

MP-1, 12:20, -0.2

Vacuum ID Link	34450 Capitol, MP-1
Vacuum ID	MP-1
Date	2021-03-11
Time	12:20
Vacuum Reading (in. w.c.)	-0.2
Number Vacuum Reading	-0.2

MP-4, 12:29, -.177

Vacuum ID Link	34450 Capitol, MP-4
Vacuum ID	MP-4
Date	2021-03-11
Time	12:29
Vacuum Reading (in. w.c.)	177
Number Vacuum Reading	-0.177

MP-3, 12:29, -.235

Vacuum ID Link	34450 Capitol, MP-3
Vacuum ID	MP-3
Date	2021-03-11
Time	12:29
Vacuum Reading (in. w.c.)	235
Number Vacuum Reading	-0.235

MP-2, 12:29, -.228

Vacuum ID Link	34450 Capitol, MP-2
Vacuum ID	MP-2
Date	2021-03-11
Time	12:29
Vacuum Reading (in. w.c.)	228
Number Vacuum Reading	-0.228

MP-5, 12:30, -.487

Vacuum ID Link	34450 Capitol, MP-5
Vacuum ID	MP-5
Date	2021-03-11
Time	12:30
Vacuum Reading (in. w.c.)	487

Number Vacuum Reading	-0.487
MP-1, 12:30,199	
Vacuum ID Link	34450 Capitol, MP-1
Vacuum ID	MP-1
Date	2021-03-11
Time	12:30
Vacuum Reading (in. w.c.)	199
Number Vacuum Reading	-0.199
U-Tube Manometer, 12:31, -1.6	
Vacuum ID Link	34450 Capitol, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-03-11
Time	12:31
Vacuum Reading (in. w.c.)	-1.6
Number Vacuum Reading	-1.6
BV-1, 12:14, 100	
Valve ID Link	34450 Capitol, BV-1
Valve ID	BV-1
Date	2021-03-11
Time	12:14
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100
BV-2, 12:14, 100	
Valve ID Link	34450 Capitol, BV-2
Valve ID	BV-2
Date	2021-03-11
Time	12:14
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100
BV-3, 12:14, 100	
Valve ID Link	34450 Capitol, BV-3
Valve ID	BV-3
Date	2021-03-11
Time	12:14
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.	No
Do all vacuum monitoring points meet -0.02 in w.c. threshold?	Yes
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	
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	2021-03-11

System Repair Photos



Are there outstanding repairs to be completed?	No	

Owner/Tenant Observations

Have there been any changes to the fan noise level or vibration?	
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	N/A
repairs, repair needs, or critical communications in	
email text	
email body	

Created	2022-01-20 18:54:22 UTC by Seth Turner
Updated	2022-01-20 19:26:22 UTC by Seth Turner
General Information	
System Inspector	Seth Turner
Date	2022-01-20
Time	13:54
System Details Link	34450 Capitol
Property Address	34450 Capitol
Check Inspection(s) to be Completed	Full System Inspection
Get weather data from National Weather Service Website for your current location?	N/A
Weather	22F. Cloudy
Ambient Temperature	22F
Barometric Pressure	29.94
Indoor Temperature	70
Design Components	
Does the house have a basement?	No
Does the house have a sump?	No
Does the house have garage retrocoat?	No
Does the house have shed retrocoat?	No
Does the house have basement retrocoat?	No
Does the house have a crawlspace barrier?	Yes
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

Page: 1 of 6

Do any drain seals need to be repaired or	
replaced?	

No

Crawlspace Barrier

Is water present on the vapor barrier?

No

Labels

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

Yes

Common Label Photos



Are labels present at the crawlspace barrier?

Yes



Vacuum Monitoring

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
lf multiple systems are present, were both inspected?	N/A

Inspection Measurements

Pre-Measurement Conditions

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

Measurements and Valve Positions

MP-4, 14:03, -0.233

34450 Capitol, MP-4
MP-4
2022-01-20
14:03
-0.233

Number Vacuum Reading	-0.233
MP-3, 14:03, -0.295	
Vacuum ID Link	34450 Capitol, MP-3
Vacuum ID	MP-3
Date	2022-01-20
Time	14:03
Vacuum Reading (in. w.c.)	-0.295
Number Vacuum Reading	-0.295
MP-2, 14:04, -0.294	
Vacuum ID Link	34450 Capitol, MP-2
Vacuum ID	MP-2
Date	2022-01-20
Time	14:04
Vacuum Reading (in. w.c.)	-0.294
Number Vacuum Reading	-0.294
MP-5, 14:04, -0.727	
Vacuum ID Link	34450 Capitol, MP-5
Vacuum ID	MP-5
Date	2022-01-20
Time	14:04
Vacuum Reading (in. w.c.)	-0.727
Number Vacuum Reading	-0.727
MP-1, 14:05, -0.267	
Vacuum ID Link	34450 Capitol, MP-1
Vacuum ID	MP-1
Date	2022-01-20
Time	14:05
Vacuum Reading (in. w.c.)	-0.267
Number Vacuum Reading	-0.267
U-Tube Manometer, 14:05, -2.6	
Vacuum ID Link	34450 Capitol, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-01-20
Time	14:05
Vacuum Reading (in. w.c.)	-2.6
Number Vacuum Reading	-2.6
BV-1, 14:24, 100	
Valve ID Link	34450 Capitol, BV-1
Valve ID	BV-1
Date	2022-01-20
	LULL U1 LU

Time	14:24
Time	14:24
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100
BV-2, 14:24, 100	
Valve ID Link	34450 Capitol, BV-2
Valve ID	BV-2
Date	2022-01-20
Time	14:24
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100
BV-3, 14:25, 100	
Valve ID Link	34450 Capitol, BV-3
Valve ID	BV-3
Date	2022-01-20
Time	14:25
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.	No
Do all vacuum monitoring points meet -0.02 in w.c. threshold?	Yes
Were any ball valve positions changed?	No
Alarm Tocting	
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	

Sam	ple [Pelay
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Jampic 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?	No
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	