# **Transmittal Letter**



Jeanne Sc	bitol I 48150 C COPIES TO chlaufman (EGLE	FROM Kristoffer Hinskey 248-994-2240 kristoffer.hinskey@arcadis.com  DATE October 5, 2022
Todd Walt Chuck Pin	, ,	
<b>PROJECT N</b> 30146655	UMBER	SUBJECT Operation, Monitoring, and Maintenance Field Notes - 34380 Capitol
We are se	nding you:	
Copies	Delivery Date	Description
1	10/6/2022	Operation, monitoring, and maintenance field notes.
☐ AN Ap	proved proved as Noted Requested	□ CR Correct and Resubmit       □ Resubmit Copies         □ F File       □ Return Copies         □ FA For Approval       □ Review and Comment
Mailing M		s 🔲 Courier/Hand Delivery 🔲 FedEx Priority Overnight 🔲 FedEx 2-Day Delivery
	/Registered Mail	s ☐ Courier/Hand Delivery ☐ FedEx Priority Overnight ☐ FedEx 2-Day Delivery ☐ United Parcel Service (UPS) ☒ FedEx Standard Overnight ☐ FedEx Economy
Comment		
field note	s. These field not	eemptive mitigation (IPM) system Operation, Monitoring, and Maintenance (OM&M) es were recorded during OM&M visits at the property between January 31, 2020 and t me know if you have any questions.

### 34380 Capitol, 2021-01-13, System Check

Created	2021-01-13 22:07:50 UTC by Andrew Banitt
Updated	2021-01-13 22:18:43 UTC by Andrew Banitt

### **General Information**

System Inspector	Andrew Banitt
Date	2021-01-13
Time	17:07
System Details Link	34380 Capitol
Property Address	34380 Capitol
Check Inspection(s) to be Completed	System Check
Get weather data from National Weather Service Website for your current location?	N/A
Weather	Mostly Cloudy
Ambient Temperature	44.06
Barometric Pressure	29.75
Indoor Temperature	70

#### **Inspection Measurements**

#### **Pre-Measurement Conditions**

Are vacuum readings being taken under closed building conditions?

Yes

#### **Measurements and Valve Positions**

#### U-Tube Manometer, 17:10, -1.2

Vacuum ID Link	34380 Capitol, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-01-13
Time	17:10
Vacuum Reading (in. w.c.)	-1.2
Number Vacuum Reading	-1.2

### SSMP-2, 17:18, -0.491

Vacuum ID Link	34380 Capitol, SSMP-2
Vacuum ID	SSMP-2
Date	2021-01-13
Time	17:18
Vacuum Reading (in. w.c.)	-0.491
Number Vacuum Reading	-0.491

#### SSMP-3, 17:18, -0.494

Vacuum ID Link	34380 Capitol, SSMP-3
Vacuum ID	SSMP-3
Date	2021-01-13
Time	17:18

Vacuum Reading (in. w.c.)	-0.494
Number Vacuum Reading	-0.494
BV-1, 17:13, 100	
Valve ID Link	34380 Capitol, BV-1
Valve ID	BV-1
Date	2021-01-13
Time	17:13
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
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
	TWA
email body	14/1
Engineer Notification	
-	N/A

34380 Capitol, 2021	-02-25, Full S	system Inspection
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Created	2021-02-25 13:02:02 UTC by Seth Turner
Updated	2021-02-25 16:52:10 UTC by Andrew Banitt

### **General Information**

System Inspector	Seth Turner
Date	2021-02-25
Time	08:02
System Details Link	34380 Capitol
Property Address	34380 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	34F, sunny
Ambient Temperature	34F
Barometric Pressure	30.12
Indoor Temperature	70

## **Design Components**

<u> </u>	
Does the house have a basement?	Yes
Does the house have a sump?	Yes
Does the house have garage retrocoat?	Yes
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?	Yes

## System Inspection

#### Fan

Fan(s) operating?	
Are there any unusual fan noises?	lo

## Piping

Is any caulking required around pipe penetrations,	Yes	
slab cracks, expansion joints, or foundation walls?		

Caulking Repairs Needed















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

Explain Pipe Related Repairs Needed	Cracks in cement on cupalex floor.
Valves	
Upon arrival, are all valves in the same position as the prior visit (reference Power BI)?	Yes
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?	No
Was the owner notified?	No
Garage Retrocoat	
Is retrocoat damaged or missing?	No
Basement Retrocoat	
Is retrocoat damaged or missing?	No
Water Sensor	
Last Battery Replacement Date	2021-02-25
Labels	
Are labels present at the pipe, control panel, utube, and breaker?	Yes

#### Common Label Photos



Are labels present at the sump?

Sump Label Photos

Yes



Basement Retrocoat Label Photos



Are labels present at the garage retrocoat?

Yes

Garage Retrocoat Label Photos



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
Massuraments and Value Desitions	
Measurements and Valve Positions	
SSMP-3, 08:06, -0.344	
Vacuum ID Link	34380 Capitol, SSMP-3
Vacuum ID	SSMP-3
Date	2021-02-25
Time	08:06
Vacuum Reading (in. w.c.)	-0.344
Number Vacuum Reading	-0.344
SSMP-2, 08:06, -0.343	
Vacuum ID Link	34380 Capitol, SSMP-2
Vacuum ID	SSMP-2
Date	2021-02-25
Time	08:06
Vacuum Reading (in. w.c.)	-0.343
Number Vacuum Reading	-0.343
U-Tube Manometer, 08:09, -1.0	
Vacuum ID Link	34380 Capitol, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-02-25
Time	08:09
Vacuum Reading (in. w.c.)	-1.0
Number Vacuum Reading	-1.0
SSMP-2, 09:55, -0.423	
Vacuum ID Link	34380 Capitol, SSMP-2
Vacuum ID	SSMP-2
Date	2021-02-25

09:55

Time

Marine Brooker Commen	0.422
Vacuum Reading (in. w.c.)	-0.423
Number Vacuum Reading	-0.423
SSMP-3, 09:55, -0.429	
Vacuum ID Link	34380 Capitol, SSMP-3
Vacuum ID	SSMP-3
Date	2021-02-25
Time	09:55
Vacuum Reading (in. w.c.)	-0.429
Number Vacuum Reading	-0.429
U-Tube Manometer, 11:51, -1	
Vacuum ID Link	34380 Capitol, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-02-25
Time	11:51
Vacuum Reading (in. w.c.)	-1
Number Vacuum Reading	-1
BV-1, 08:21, 100	
Valve ID Link	34380 Capitol, BV-1
Valve ID	BV-1
Date	2021-02-25
Time	08:21
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 Tosting	
Alarm Testing Sensaphone Link	N/A
Does the vacuum switch alarm work? Test the	Yes
alarm condition and verify an alarm registers.	
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

Sumple Belay		
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:	Caulking cracks/separation from wall in cement basement flooring.
System Repair Completion Date	2021-02-25

System Repair Photos











Are there	outstanding	renairs to h	e completed?	No
Ale tilele	outstanding	repairs to b	e completeu:	INC

### 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	Site visit is complete for today at 34380 Capitol.

## **Engineer Notification**

email body	Water inspection is complete for today at 34380 Capitol.
repairs, repair needs, or critical communications in email text	
Send Inspection Completion Email - add any	N/A

### **Additional Notes and Photos**

Photos



water sensor hatch



water sensor hatch

Created	2022-01-19 17:09:07 UTC by Seth Turner
Updated	2022-01-19 18:03:03 UTC by Seth Turner
General Information	
System Inspector	Seth Turner
Date	2022-01-19
Time	12:09
System Details Link	34380 Capitol
Property Address	34380 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	40F, cloudy
Ambient Temperature	45
Barometric Pressure	29.92
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?	Yes
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?	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 No replaced?

**Basement** 

Is water present in the basement?

Sumps

Is the sump full/evidence pump is broken?

No

Was the owner notified?

No

**Garage Retrocoat** 

Is retrocoat damaged or missing?

**Basement Retrocoat** 

Is retrocoat damaged or missing?

**Water Sensor** 

Last Battery Replacement Date 2022-01-19

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



Are labels present at the garage retrocoat?

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
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, 12:10, -1.1

Vacuum ID Link	34380 Capitol, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-01-19
Time	12:10
Vacuum Reading (in. w.c.)	-1.1

CCM	ローフ	17・77	-0.418

Vacuum ID Link	34380 Capitol, SSMP-2
Vacuum ID	SSMP-2
Date	2022-01-19
Time	12:22
Vacuum Reading (in. w.c.)	-0.418
Number Vacuum Reading	-0.418

### SSMP-3, 12:29, -0.411

Vacuum ID Link	34380 Capitol, SSMP-3
Vacuum ID	SSMP-3
Date	2022-01-19
Time	12:29
Vacuum Reading (in. w.c.)	-0.411
Number Vacuum Reading	-0.411

### BV-1, 12:30, 100

34380 Capitol, BV-1
BV-1
2022-01-19
12:30
100
100
No

## Inspection Reading Analysis

#### Manometer

Is the system manometer steady?	Yes			
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#### 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?	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	