Transmittal Letter



	ewster I 48150 I C COPIES TO chlaufman (EGLE on (Ford)	FROM Kristoffer Hinskey 248-994-2240 kristoffer.hinskey@arcadis.com DATE October 4, 2022
PROJECT N 30146655	_	SUBJECT Operation, Monitoring, and Maintenance Field Notes - 12091 Brewster
We are se	ending you:	
Copies	Delivery Date	Description
1	10/6/2022	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
	stal Service 1 st Clas l/Registered Mail	ss Courier/Hand Delivery FedEx Priority Overnight FedEx 2-Day Delivery United Parcel Service (UPS) FedEx Standard Overnight FedEx Economy
Comment Attached field note	are the interim poss. These field not	reemptive mitigation (IPM) system Operation, Monitoring, and Maintenance (OM&M) tes were recorded during OM&M visits at the property between June 30, 2020 and at the know if you have any questions.

12091 Brewster, 2020-11-11, Full System Inspection	
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Created	2020-11-11 15:25:07 UTC by Seth Turner
Updated	2020-11-11 15:54:04 UTC by Seth Turner

General Information

System Inspector	Seth Turner
Date	2020-11-11
Time	10:15
System Details Link	12091 Brewster
Property Address	12091 Brewster
Check Inspection(s) to be Completed	Full System Inspection
Get weather data from National Weather Service Website for your current location?	N/A
Weather	Mostly Clear
Ambient Temperature	48.02
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, 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 the prior visit (reference Power BI)?	No
List Changed Valves	1 and 2

Drains

Do any drain seals need to be repaired or replaced?	No		
Crawlspace Barrier			
Is water present on the vapor barrier?	No		
Lahala			

Labels

Are labels present at the pipe, control panel, u-Yes tube, and breaker? Are labels present at the crawlspace barrier?

Yes

Barrier Label Photos



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

Inspection Measurements

Pre-Measurement Conditions

Are vacuum readings being taken under closed building conditions?

Measurements and Valve Positions

MP-2, 10:30, -0	.025
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Vacuum ID Link	12091 Brewster, MP-2
Vacuum ID	MP-2
Date	2020-11-11
Time	10:30
Vacuum Reading (in. w.c.)	-0.025
Number Vacuum Reading	-0.025

MP-1, 10:30, -0.023

Vacuum ID Link	12091 Brewster, MP-1
Vacuum ID	MP-1
Date	2020-11-11
Time	10:30
Vacuum Reading (in. w.c.)	-0.023
Number Vacuum Reading	-0.023

U-Tube Manometer, 10:31, -1.1

Vacuum ID Link	12091 Brewster, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2020-11-11
Time	10:31
Vacuum Reading (in. w.c.)	-1.1
Number Vacuum Reading	-1.1

BV-1, 10:32, 90

Valve ID Link	12091 Brewster, BV-1
Valve ID	BV-1
Date	2020-11-11
Time	10:32
Valve Position at Arrival (% Open)	90
Valve Position at Departure (% Open)	90

BV-2, 10:33, 10

Valve ID Link	12091 Brewster, BV-2
Valve ID	BV-2
Date	2020-11-11
Time	10:33
Valve Position at Arrival (% Open)	10
Valve Position at Departure (% Open)	10
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 v threshold?	.c. Yes
Were any ball valve positions changed?	No
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	Yes
alarm condition and verify an alarm registers.	
Does the transmitter alarm work? Test the alarm condition and verify an alarm registers.	n N/A
Check the alarm history on the disconnect for the fan. Was it off for any length of time?	e No
Is the cloud logging vacuum readings properly (I in to check)?	og 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 le or vibration?	vel 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	N/A
renairs renair needs or critical communications	

repairs, repair needs, or critical communications in

email text email body

12091 Brewster, 2021-02-22, Full System Inspection	
Created	2021-02-22 13:34:40 UTC by Seth Turner
Updated	2021-02-22 14:53:02 UTC by Andrew Banitt

Created	2021-02-22 13:34:40 UTC by Seth Turner
Updated	2021-02-22 14:53:02 UTC by Andrew Banitt
General Information	
System Inspector	Seth Turner
Date	2021-02-22
Time	09:00
System Details Link	12091 Brewster

Property Address	12091 Brewster
Check Inspection(s) to be Completed	Full System Inspection
Get weather data from National Weather Service	N/A
Website for your current location?	

70

Weather	34F, cloudy
Ambient Temperature	34F
Barometric Pressure	29.92

Design Components

Indoor Temperature

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?	Yes
Does the house have a water sensor?	No

System Inspection

Fan

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

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

Drains

Do any drain seals need to be repaired or replaced?

No

Crawlspace Barrier

Is water present on the vapor barrier?

No

Inaccessible Crawlspace

Are all entry points, vents, cracks, or other opening to crawlspaces being depressurized sealed?

Yes

Labels

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

Yes

Common Label Photos



Are labels present at the crawlspace barrier?

Barrier Label Photos



Are labels present at the inaccessible crawlspace?

Inaccessible Crawlspace Label Photos

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)?

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	
MP-2, 09:13, -0.025	
Vacuum ID Link	12091 Brewster, MP-2
Vacuum ID	MP-2
Date	2021-02-22
Time	09:13
Vacuum Reading (in. w.c.)	-0.025
Number Vacuum Reading	-0.025
MP-1, 09:15, -0.021	
Vacuum ID Link	12091 Brewster, MP-1
Vacuum ID	MP-1
Date	2021-02-22
Time	09:15
Vacuum Reading (in. w.c.)	-0.021
Number Vacuum Reading	-0.021
U-Tube Manometer, 09:18, -1.1	
Vacuum ID Link	12091 Brewster, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-02-22
Time	09:18
Vacuum Reading (in. w.c.)	-1.1
Number Vacuum Reading	-1.1
MP-1, 09:26, -0.023	
Vacuum ID Link	12091 Brewster, MP-1
Vacuum ID	MP-1
Date	2021-02-22
Time	09:26
Vacuum Reading (in. w.c.)	-0.023
Number Vacuum Reading	-0.023
MP-2, 09:26, -0.025	
Vacuum ID Link	12091 Brewster, MP-2

Vacuum ID	MP-2
Date	2021-02-22
Time	09:26
Vacuum Reading (in. w.c.)	-0.025
Number Vacuum Reading	-0.025
II Tube Managertor 00:26 1.1	
U-Tube Manometer, 09:26, -1.1 Vacuum ID Link	12091 Brewster, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-02-22
Time	09:26
Vacuum Reading (in. w.c.)	-1.1
Number Vacuum Reading	-1.1
DV4 00 07 400	
BV-1, 09:07, 100	42004 D
Valve ID Link	12091 Brewster, BV-1
Valve ID	BV-1
Date	09:07 09:07
Valve Position at Arrival (% Open)	90
Valve Position at Departure (% Open)	100
- Valve Position at Departure (% Open)	100
BV-2, 09:19, 10	
Valve ID Link	12091 Brewster, BV-2
Valve ID	BV-2
Date	2021-02-22
Time	09:19
Valve Position at Arrival (% Open)	10
Valve Position at Departure (% Open)	10
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?	Yes
Did you take final readings?	Yes
Alarm Testing Sensaphone Link	N/A
Sensaphone Link	IV/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

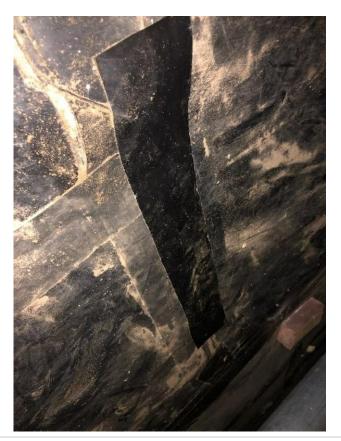
Send Sample Delay Email	N/A
email body	

Repair Completion

Were seam repairs completed during this visit?	Yes	
Were system repairs completed during this visit?	No	
Additional sealing completed:	Sealing done near geovent on west side of crawlspace near entrance.	
Sealing Completion Date	2021-02-22	

Sealing 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 require vapor mitigation?

No

N/A

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

email body

Created	2022-01-25 12:55:08 UTC by Seth Turner
Updated	2022-01-25 13:40:46 UTC by Seth Turner
General Information	
System Inspector	Seth Turner
Date	2022-01-25
Time	07:55
System Details Link	12091 Brewster
Property Address	12091 Brewster
Check Inspection(s) to be Completed	Full System Inspection
Get weather data from National Weather Service Website for your current location?	N/A
Weather	10F, clear
Ambient Temperature	10F
Barometric Pressure	30.12
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

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Victom.	Inche	CTION
System	เบเวมต	CUUI

Does the house have basement retrocoat?

Does the house have a crawlspace barrier?

Does the house have a water sensor?

Does the house have an inaccessible crawlspace?

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	_	~
•	-~	

Fan(s) operating?	Yes
Are there any unusual fan noises?	No

No

Yes

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

Drains

Do any drain seals need to be repaired or	
replaced?	

Crawlspace Barrier

Is water present on the vapor barrier? No

Labels

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

Yes

No

Common Label Photos



Are labels present at the crawlspace barrier?



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	Yes
building conditions?	
Do any monitoring points have transmitters?	No

Measurements and Valve Positions

MP-2, 08:05, -0.034

Vacuum ID Link	12091 Brewster, MP-2
Vacuum ID	MP-2
Date	2022-01-25
Time	08:05
Vacuum Reading (in. w.c.)	-0.034

Number Vacuum Reading	-0.034
MP-1, 08:05, -0.031	
Vacuum ID Link	12091 Brewster, MP-1
Vacuum ID	MP-1
Date	2022-01-25
Time	08:05
Vacuum Reading (in. w.c.)	-0.031
Number Vacuum Reading	-0.031
U-Tube Manometer, 08:05, -1.1	
Vacuum ID Link	12091 Brewster, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-01-25
Time	08:05
Vacuum Reading (in. w.c.)	-1.1
Number Vacuum Reading	-1.1
MP-2, 08:25, -0.035	
Vacuum ID Link	12091 Brewster, MP-2
Vacuum ID	MP-2
Date	2022-01-25
Time	08:25
Vacuum Reading (in. w.c.)	-0.035
Number Vacuum Reading	-0.035
MP-1, 08:26, -0.031	
Vacuum ID Link	12091 Brewster, MP-1
Vacuum ID	MP-1
Date	2022-01-25
Time	08:26
Vacuum Reading (in. w.c.)	-0.031
Number Vacuum Reading	-0.031
U-Tube Manometer, 08:26, -1.1	
Vacuum ID Link	12091 Brewster, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-01-25
Time	08:26
Vacuum Reading (in. w.c.)	-1.1
Number Vacuum Reading	-1.1
BV-1, 08:22, 100	
Valve ID Link	12091 Brewster, BV-1
Valve ID	BV-1
Date	2022-01-25
***	· · · · · · - ·

00.22
08:22
100
100
12091 Brewster, BV-2
BV-2
2022-01-25
08:22
10
10
No
Yes
No
Yes
No
N/A
Yes
Yes
N/A
No
N/A
N/A
No
No

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

Have any structures been built or modified that 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	

email body

Additional Notes and Photos

Notes	Inaccessible crawlspace cover intact

N/A

Photos

