

March 4, 2022

Submitted Electronically to Air.Pollution.Control@tn.gov

Ms. Michelle Owenby, Director
Tennessee Division of Air Pollution Control
William R Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, Tennessee 37243

Re: Report of the Results of Visible Emission Evaluations Which Demonstrate Compliance with the Opacity Limits as Specified in Conditions F1-1, F2-1, and F3-1 of Permit No. 079446, Barton Malow Company - Ultium Cells/Nightsky

Dear Ms. Owenbey:

Pursuant to Conditions F1-2, F2-2, and F3-2 of Permit No. 079446, I am submitting a written report of the evaluation of visible emissions (VEE) from Sources 01, 02, and 03 at the Barton Malow Company - Ultium Cells/Nightsky facility located at 301 Donald F Ephlin Parkway, Spring Hill, TN (Maury County). The VEE demonstrate compliance with the opacity limits as specified in Conditions F1-1, F2-1, and F3-1 of Permit No. 079446. The VEE was conducted in accordance with directions from Garrett Ammons of your staff.

The attached Visible Emission Observation Forms provide the results of the VEE conducted on January 18, 2022, January 24, 2022, and February 7, 2022. The VEE was performed by John Siler, Environmental Scientist, Ensaf, Inc. His VEE Certification Card is also attached.

In addition, attached are the following:

- Table correlating the VEE observation points to the permitted sources
- Calculation of six-minute average opacity for the observation points having any value greater than zero

- Pictures of the sources

If you should have any questions concerning the results of this VEE, please contact John Siler at (615) 252-2838 or jsiler@ensafe.com.

Sincerely,

Ross Beckman

Project Manager, Building Trades

Attachments

Correlation of VEE Observation Points to the Permitted Sources		
Permit Source No.	Observation Point Number	Description
03	1	Hopper feeder to top of Portable R230 Screen #3 - Clay Scalper
03	2	Portable R230 Screen #3 - Clay Scalper to main Conveyor
03	3	Portable R230 Screen #3 - Clay Scalper to Conveyor # 2
03	4	Conveyor 2 to Stacker #7
03	5	Portable R230 Screen #3 - Clay Scalper to Conveyor #3
01	6	Portable J50 Jaw Crusher #1 to crusher conveyor
01	7	Portable J50 Jaw Crusher #1 Conveyor to Portable R230 Screen #1 Belt
01	8	Conveyor to top of Portable R230 Screen #1
01	9	Portable R230 Screen #1, Conveyor #1
01	10	Portable R230 Screen #1 Conveyor drop to Portable I44 Impact Crusher #1
01	11	Portable I44 Impact Crusher #1 Belt
01	12	Portable I44 Impact Crusher #1 Conveyor to Stacker #1
01	13	Portable R230 Screen #1 to Conveyor #2
01	14	Conveyor to Stacker #2
01	15	Stacker #2 to Stacker #3
02	16	Portable J45 Jaw Crusher #2 to Crusher Belt

Correlation of VEE Observation Points to the Permitted Sources (Cont.)		
02	17	Crusher Belt to Portable R155 Screen #2
02	18	Portable R155 Screen #2 Feed Belt to top of Screen
02	19	Portable R155 Screen #2 to Conveyor #2
02	20	Portable R155 Screen #2 Conveyor #1 to Portable I44 Impact Crusher #2
02	21	Portable I44 Impact Crusher #2
02	22	Portable I44 Impact Crusher #2 to Stacker #4
02	23	Portable R155 Screen #2 to Conveyor #2
02	24	Conveyor to Stacker #5

EPA METHOD 9 (40 CFR 60 - Appendix A)

1

VISIBLE EMISSION OBSERVATION FORM

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DRA ULTIM CELL / NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL TN	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE 03 POINT 1	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT HOPPER FEEDER	
TO TOP OF SCALPER	
HEIGHT OF EMISSION POINT 15ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER 9ft 9ft
DISTANCE TO EMISSION POINT 50ft 50ft	DIRECTION TO EMISSION PT. (DEGREES 0-360)) START 315° END 315°
VERTICAL ANGLE TO OBSERVATION POINT 10° 10°	DIRECTION TO OBSERVATION POINT (DEGREES 0-360)) START 45° END 45°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 45° @ 50ft END 45° @ 50ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE) NONE	WATER DROPLET PLUME NONE
START NONE	END NONE
DESCRIBE PLUME BACKGROUND BLUE SKY	
START BLUE	END BLUE
BACKGROUND COLOR BLUE	SKY CONDITIONS FAIR
START 7 mph	END 7 mph
WIND SPEED 7 mph	WIND DIRECTION S
START 41°	END 41°
AMBIENT TEMP 41°	WET BULB TEMP 70°
START 41°	END 41°
RH percent 70%	

Source Layout Sketch	
Draw North Arrow ☐ TN ☐ MN	
Side View Stack with Plume Sun Wind	
15 FT 50 FT 140°	
ADDITIONAL INFORMATION PROCESS EQUIPMENT - SCREEN #3	

OBSERVATION DATE 1/18/22	START TIME 11:13	END TIME 11:43
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MIN	SEC	0	15	30	45	COMMENTS
1		0	0	0	0	
2		0	0	0	0	
3		0	0	0	0	
4		0	0	0	0	
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26		0	0	0	0	
27		0	0	0	0	
28		0	0	0	0	
29		0	0	0	0	
30		0	0	0	0	

OBSERVER'S NAME (PRINT) JOHN SILER	DATE 1/18/22
OBSERVER'S SIGNATURE 	DATE 1/18/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 1/18/22

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

2

COMPANY NAME BARTON MALOW COMPANY		
LOCATION DBA ULTIM CELL5 / NIGHTSKY		
LOCATION 301 DONALD F EPHLIN PARKWAY		
CITY SPRING HILL	STATE TN	ZIP 37174
PROCESS EQUIPMENT SOURCE 03 POINT 2		OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION		OPERATING MODE OPERATING
DESCRIBE EMISSION POINT SCREEN TO MAIN CONVEYOR		
HEIGHT OF EMISSION POINT 20 ft		HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 14 ft END 14 ft
DISTANCE TO EMISSION POINT START 55 ft END 55 ft		DIRECTION TO EMISSION PT. (DEGREES 0-360) START 315° END 315°
VERTICAL ANGLE TO OBSERVATION POINT START 14° END 14°		DIRECTION TO OBSERVATION POINT (DEGREES 0-360) START 45° END 45°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 45° @ 55 ft END 45° @ 55 ft		
DESCRIBE EMISSIONS (AOLK DUST)		
START NONE END NONE		
EMISSION COLOR (WHITE) START NONE END NONE		WATER DROPLET PLUME ☐ ATTACHED ☐ DETACHED ☒ NONE
DESCRIBE PLUME BACKGROUND START BLUE SKY END BLUE SKY		
BACKGROUND COLOR START BLUE END BLUE		SKY CONDITIONS START FAIR END FAIR
WIND SPEED START 7 mph END 7 mph		WIND DIRECTION START S END S
AMBIENT TEMP START 41° END 41°		WET BULB TEMP RH percent START 70% END 70%

Source Layout Sketch

Draw North Arrow
☐ TN ☐ MN

Side View

ADDITIONAL INFORMATION
PROCESS EQUIPMENT - SCREEN #3

OBSERVATION DATE 1/18/22		START TIME 11:13		END TIME 11:43	
MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
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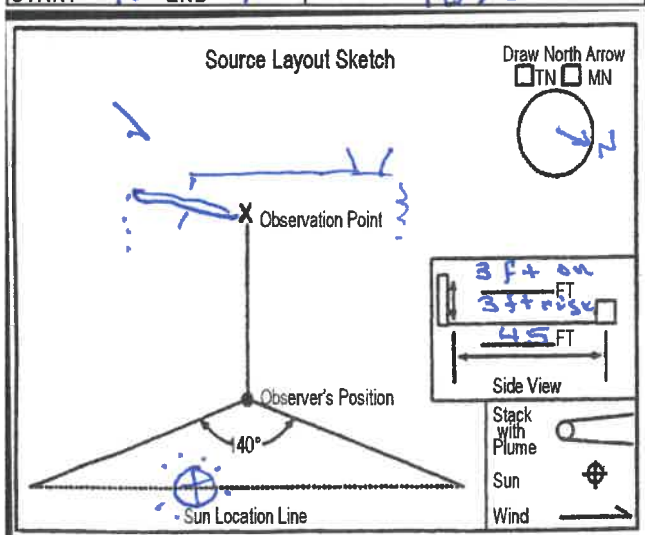
OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE 	DATE 1/18/22
ORGANIZATION ENSAF	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 1/22/22

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

3

COMPANY NAME BARTON MALOW COMPANY		
LOCATION DRA ULTIM CELLS / NIGHTSKY		
LOCATION 301 DONALD F EPHLIN PARKWAY		
CITY SPRING HILL TN	STATE TN	ZIP 37174
PROCESS EQUIPMENT SOURCE 03 POINT 3		OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION		OPERATING MODE OPERATING
DESCRIBE EMISSION POINT		

SS CONVEYOR 2	
HEIGHT OF EMISSION POINT	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER 0 ft 0 ft
DISTANCE TO EMISSION POINT 45 ft 45 ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) 315° 315°
START 0° END 0°	START 45° END 45°
VERTICAL ANGLE TO OBSERVATION POINT 0° 0°	
DIRECTION TO OBSERVATION POINT (DEGREES 0-360) 45° 45°	
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT 45° @ 45 ft 45° @ 45 ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE END NONE	
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE END NONE	ATTACHED ☐ DETACHED ☐ NONE ☒
DESCRIBE PLUME BACKGROUND	
START EQUIPMENT END EQUIPMENT	
BACKGROUND COLOR MULTI MULTI	SKY CONDITIONS FAIR FAIR
WIND SPEED 7 mph 7 mph	WIND DIRECTION S S
AMBIENT TEMP 41° 41°	WET BULB TEMP RH percent 70% 70%



ADDITIONAL INFORMATION PROCESS EQUIPMENT - SCREEN #3
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OBSERVATION DATE 11/18/22	START TIME 11:13	END TIME 11:43
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MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
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27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT) JOHN SILER	DATE 11/18/22
OBSERVER'S SIGNATURE <i>[Signature]</i>	DATE 11/22/21
ORGANIZATION ENSAF	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 11/22/21

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

4

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELL/NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL TN	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE 03 POINT 4	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT CONVEYOR 2 TO STACKER 7	
HEIGHT OF EMISSION POINT 3 ft on approx 3 ft rise	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER 0 ft 0 ft
DISTANCE TO EMISSION POINT 40 ft 40 ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 315° END 315°
VERTICAL ANGLE TO OBSERVATION POINT 0° 0°	DIRECTION TO OBSERVATION POINT (DEGREES 0-360) START 45° END 45°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 45° @ 40 ft END 45° @ 40 ft	
DESCRIBE EMISSIONS START NONE END NONE	
EMISSION COLOR (WHITE) START NONE END NONE	WATER DROPLET PLUME ATTACHED ☐ DETACHED ☐ NONE ☒
DESCRIBE PLUME BACKGROUND START EQUIPMENT END EQUIPMENT	
BACKGROUND COLOR START MULTI END MULTI	SKY CONDITIONS START PARTLY CLOUDY END CLOUDY
WIND SPEED START 9 mph END 9 mph	WIND DIRECTION START S END S
AMBIENT TEMP START 41° END 44°	WET BULB TEMP RH percent 63%

Source Layout Sketch

Draw North Arrow ☐ TN ☐ MN

Observer's Position

Observation Point

Sun Location Line

Side View

Stack with Plume

Sun

Wind

ADDITIONAL INFORMATION
PROCESS EQUIPMENT - SCREEN #3

OBSERVATION DATE 1/18/22	START TIME 11:43	END TIME 12:13
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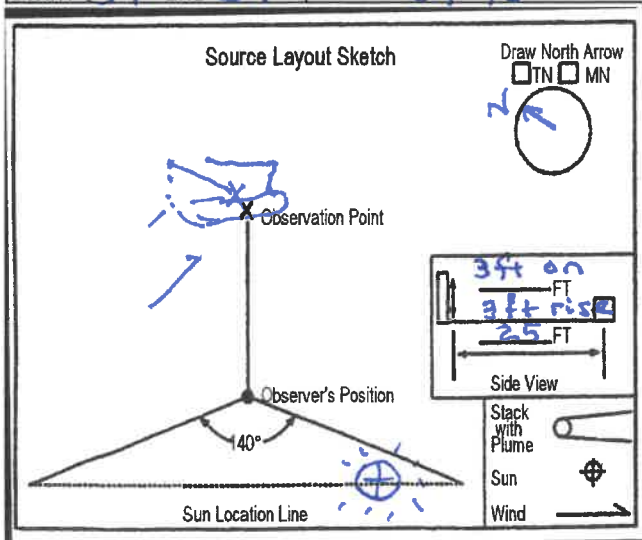
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3		0	0	0	0	
4		0	0	0	0	
5		0	0	0	0	
6		0	0	0	0	
7		0	0	0	0	
8		0	0	0	0	
9		0	0	0	0	
10		0	0	0	0	
11		0	0	0	0	
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13		0	0	0	0	
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25		0	0	0	0	
26		0	0	0	0	
27		0	0	0	0	
28		0	0	0	0	
29		0	0	0	0	
30		0	0	0	0	

OBSERVER'S NAME (PRINT) JOHN SILVER	DATE 1/18/22
OBSERVER'S SIGNATURE <i>[Signature]</i>	DATE 1/18/22
ORGANIZATION ENSAF	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 1/22/21

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

5

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELL/ NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL TN	STATE 37174
PROCESS EQUIPMENT SOURCE 03 POINT 5	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT SS CONVEYOR 3	
HEIGHT OF EMISSION POINT 3ft on approx 3ft rise	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 0ft END 0ft
DISTANCE TO EMISSION POINT START 25ft END 25ft	DIRECTION TO EMISSION PT. (DEGREES 0-360)) START 135° END 135°
VERTICAL ANGLE TO OBSERVATION POINT START 0° END 0°	DIRECTION TO OBSERVATION POINT DEGREES (0-360)) START 225° END 225°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 225° @ 25ft END 225° @ 25ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE END NONE	WATER DROPLET PLUME
EMISSION COLOR (WHITE)	ATTACHED ☐ DETACHED ☐ NONE ☒
DESCRIBE PLUME BACKGROUND	
START EQUIPMENT END EQUIPMENT	SKY CONDITIONS START GREEN END GREEN
BACKGROUND COLOR GREEN	WIND DIRECTION START WSW END WSW
WIND SPEED START 8mph END 8mph	AMBIENT TEMP START 57° END 57°
WET BULB TEMP START 34° END 34°	RH percent



ADDITIONAL INFORMATION
PROCESS EQUIPMENT - SCREEN #3

OBSERVATION DATE 1/24/22	START TIME 13:46	END TIME 14:16
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MIN	SEC	0	15	30	45	COMMENTS
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4		0	0	0	0	
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27		0	0	0	0	
28		0	0	0	0	
29		0	0	0	0	
30		0	0	0	0	

OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE <i>[Signature]</i>	DATE 1/24/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 11/22/21

VISIBLE EMISSION OBSERVATION FORM

6

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELLULOSIS / NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE OF POINT B	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT CRUSHER TO CRUSHER CONVEYOR	
HEIGHT OF EMISSION POINT 6 ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 0 ft END 0 ft
DISTANCE TO EMISSION POINT 35 ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 225° END 225°
VERTICAL ANGLE TO OBSERVATION POINT 0°	DIRECTION TO OBSERVATION POINT DEGREES (0-360) START 135° END 135°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 135° @ 35 ft END 135° @ 35 ft	
DESCRIBE EMISSIONS (CRACK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE	END NONE
DESCRIBE PLUME BACKGROUND	
START EQUIPMENT	END EQUIPMENT
BACKGROUND COLOR	SKY CONDITIONS
START MULTI	END MULTI
WIND SPEED	WIND DIRECTION
START 10 mph	END 10 mph
AMBIENT TEMP	WET BULB TEMP
START 40°	END 43°
	53%

Source Layout Sketch	
Draw North Arrow ☐ TN ☐ MN	
ADDITIONAL INFORMATION PROCESS EQUIPMENT: CRUSHER #1 JAW	

OBSERVATION DATE 1/24/22	START TIME 9:24	END TIME 9:54
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MIN	SEC	0	15	30	45	COMMENTS
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2		0	0	0	0	
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27		0	0	0	0	
28		0	0	0	0	
29		0	0	0	0	
30		0	0	0	0	

OBSERVER'S NAME (PRINT) JOHN SILVER	
OBSERVER'S SIGNATURE 	DATE 1/24/22
ORGANIZATION ENSURE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 11/22/21

VISIBLE EMISSION OBSERVATION FORM

7

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIUM CELLS/NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL TN	ZIP 37174
PROCESS EQUIPMENT SOURCE V1 POINT 7	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT CRUSHER CONVEYOR TO SCREEN BELT	
HEIGHT OF EMISSION POINT 15ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 9ft END 9ft
DISTANCE TO EMISSION POINT START 30ft END 30ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 225° END 225°
VERTICAL ANGLE TO OBSERVATION POINT START 17° END 17°	DIRECTION TO OBSERVATION POINT (DEGREES 0-360) START 135° END 135°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 135° @ 30ft END 135° @ 30ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE	END NONE
DESCRIBE PLUME BACKGROUND SKY, CLOUDS, EQUIPMENT	
BACKGROUND COLOR MULTI	SKY CONDITIONS MOSTLY CLOUDY
WIND SPEED 10mph	WIND DIRECTION SSW
AMBIENT TEMP 40°	WET BULB TEMP 53%
END 43°	END 53%

Source Layout Sketch	
Draw North Arrow ☐ TN ☐ MN	
ADDITIONAL INFORMATION PROCESS EQUIPMENT: CRUSHER #1 SCREEN #1	

OBSERVATION DATE 1/24/22		START TIME 9:24		END TIME 9:54	
SEC MIN	0	15	30	45	COMMENTS
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5	0	0	0	0	
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27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE	DATE 1/24/22
ORGANIZATION E.O. SAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 11/22/21

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

8

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIUM CELLS / NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL TN	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE ON POINT &	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT SCREEN FEED	
CONVEYOR TO TOP OF SCREEN	
HEIGHT OF EMISSION POINT 15ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER 9ft 9ft
DISTANCE TO EMISSION POINT 30ft 30ft	DIRECTION TO EMISSION PT. (DEGREES 0-360)) START 225° END 225°
VERTICAL ANGLE TO OBSERVATION POINT 17° 17°	DIRECTION TO OBSERVATION POINT DEGREES (0-360)) START 135° END 135°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 135° @ 30ft END 135° @ 30ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE) WATER DROPLET PLUME	
START NONE	END NONE
ATTACHED ☐ DETACHED ☐ NONE ☒	
DESCRIBE PLUME BACKGROUND SKY, CLOUDS, EQUIPMENT	
START SKY, CLOUDS, EQUIPMENT	END SKY, CLOUDS, EQUIPMENT
BACKGROUND COLOR	SKY CONDITIONS
START MULTI	END MULTI
WIND SPEED 10mph	WIND DIRECTION SSW
START 10mph	END 10mph
AMBIENT TEMP 43°	WET BULB TEMP 53°/60°
START 43°	END 46°

Source Layout Sketch

Draw North Arrow
☐ TN ☐ MN

Side View
Stack with Plume
Sun
Wind

ADDITIONAL INFORMATION
PROCESS EQUIPMENT: SCREEN #1

OBSERVATION DATE	START TIME	END TIME
1/24/22	9:54	10:24

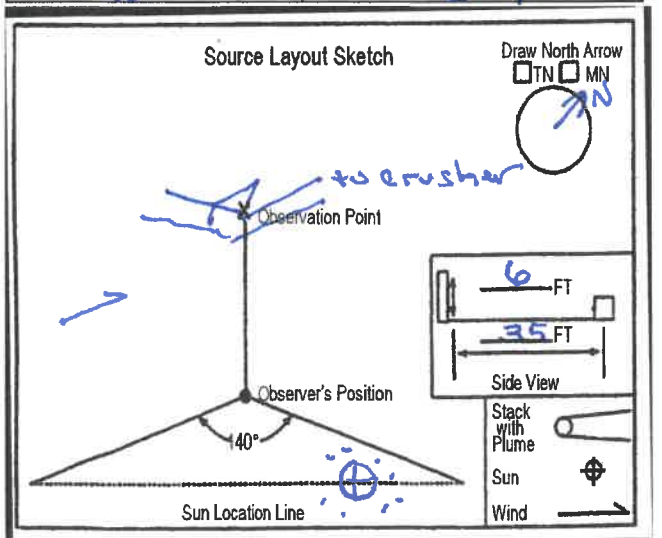
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OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE 	DATE 1/24/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 1/22/21

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

9

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELL / NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE OF POINT	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT SCREEN # C1	
HEIGHT OF EMISSION POINT 6ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER 0ft START 0ft END
DISTANCE TO EMISSION POINT 35ft START 35ft END	DIRECTION TO EMISSION PT. (DEGREES 0-360) 225° START 225° END
VERTICAL ANGLE TO OBSERVATION POINT 0° START 0° END	DIRECTION TO OBSERVATION POINT DEGREES (0-360) 135° START 135° END
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT 135° @ 35ft START 135° @ 35ft END	
DESCRIBE EMISSIONS (BLACK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE END NONE	ATTACHED ☐ DETACHED ☐ NONE ☒
DESCRIBE PLUME BACKGROUND SKY, CLOUDS, EQUIPMENT	
START SKY, CLOUDS, EQUIPMENT	END SKY, CLOUDS, EQUIPMENT
BACKGROUND COLOR MULTI	SKY CONDITIONS MOSTLY MOSTLY CLOUDY
START MULTI END MULTI	START CLOUDY END CLOUDY
WIND SPEED 10mph	WIND DIRECTION S8W
START 10mph END 10mph	START S8W END SSW
AMBIENT TEMP 43°	WET BULB TEMP 53°
START 43° END 46°	RH percent



ADDITIONAL INFORMATION
PROCESS EQUIPMENT : SCREEN #1

OBSERVATION DATE 1/24/22	START TIME 9:54	END TIME 10:24
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OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE 	DATE 1/24/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 11/22/21

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

10

COMPANY NAME BARTON MALOW COMPANY		
LOCATION DBA ULTIM CELL / NIGHTSKY		
LOCATION 301 DONALD F EPHLIN PARKWAY		
CITY SPRING HILL TN	STATE TN	ZIP 37174
PROCESS EQUIPMENT SOURCE OR POINT ID		OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION		OPERATING MODE OPERATING
DESCRIBE EMISSION POINT		

HEIGHT OF EMISSION POINT 20ft		HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER 14ft START 14ft END	
DISTANCE TO EMISSION POINT 25ft START 25ft END		DIRECTION TO EMISSION PT. (DEGREES 0-360) 315° START 315° END	
VERTICAL ANGLE TO OBSERVATION POINT 29° START 29° END		DIRECTION TO OBSERVATION POINT DEGREES (0-360) 45° START 45° END	
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT 45° @ 25ft START 45° @ 25ft END			
DESCRIBE EMISSIONS (rock dust)			
START NONE END NONE		EMISSION COLOR (WHITE) WATER DROPLET PLUME	
START NONE END NONE		ATTACHED ☐ DETACHED ☐ NONE ☒	
DESCRIBE PLUME BACKGROUND BLUE SKY, BLUE SKY, EQUIPMENT			
BACKGROUND COLOR BLUE, BLUE, GREEN		SKY CONDITIONS mostly mostly cloudy	
WIND SPEED 10mph START 13mph END		WIND DIRECTION SSW START SSW END	
AMBIENT TEMP 46° START 49° END		WET BULB TEMP 44° RH percent	

Source Layout Sketch		Draw North Arrow ☐ TN ☐ MN

ADDITIONAL INFORMATION PROCESS EQUIPMENT: SCREEN #1
IMPACT CRUSHER #1

OBSERVATION DATE 1/24/22	START TIME 10:28	END TIME 10:58
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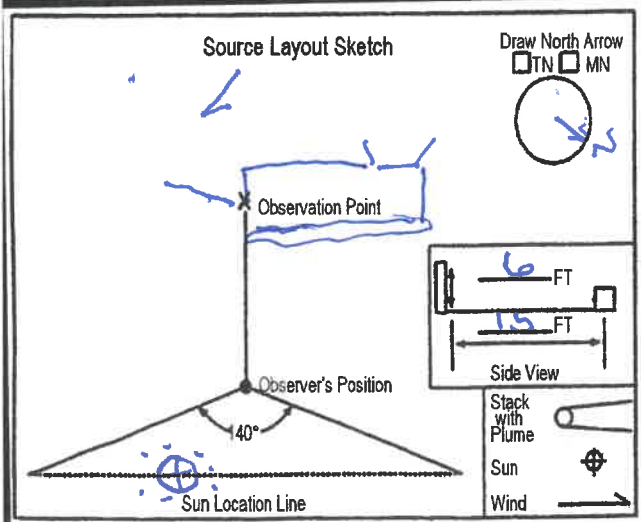
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29		0	0	0	0	
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OBSERVER'S NAME (PRINT) JOHN SILER	DATE 1/24/22
OBSERVER'S SIGNATURE 	DATE 1/24/22
ORGANIZATION ENSAFE	DATE 1/22/21
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 1/22/21

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

11

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIUM CELLS/NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE OF POINT II	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT IMPACT CRUSHER BELT	
HEIGHT OF EMISSION POINT 6ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER 0ft 0ft
DISTANCE TO EMISSION POINT 15ft 15ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 315° END 315°
VERTICAL ANGLE TO OBSERVATION POINT 0° 0°	DIRECTION TO OBSERVATION POINT DEGREES (0-360) START 45° END 45°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 45° @ 15ft END 45° @ 15ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE) NONE	WATER DROPLET PLUME NONE
START NONE	END NONE
DESCRIBE PLUME BACKGROUND EQUIPMENT EQUIPMENT	
START MULTI MULTI	END MULTI MULTI
BACKGROUND COLOR MULTI MULTI	SKY CONDITIONS FAIR FAIR
WIND SPEED 9mph 9mph	WIND DIRECTION W W
AMBIENT TEMP 50° 50°	WET BULB TEMP RH percent 36° 10



ADDITIONAL INFORMATION
PROCESS EQUIPMENT: IMPACT CRUSHER #1

OBSERVATION DATE 2/7/22	START TIME 11:48	END TIME 12:18
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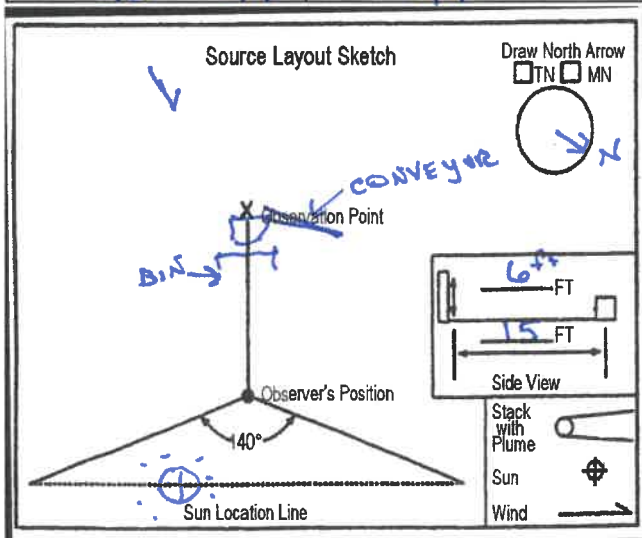
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OBSERVER'S NAME (PRINT) JOHN SILER	DATE 2/7/22
OBSERVER'S SIGNATURE <i>[Signature]</i>	DATE 2/7/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 11/22/21

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

12

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELL / NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL TN	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE OR POINT 12	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT IMPACT CRUSHER	
CONVEYOR TO STACKER #1	
HEIGHT OF EMISSION POINT 6ft 20ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER 0ft 14ft 0ft 14ft
DISTANCE TO EMISSION POINT 15ft 15ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 315° END 315°
VERTICAL ANGLE TO OBSERVATION POINT 0° 0°	DIRECTION TO OBSERVATION POINT DEGREES (0-360) START 45° END 45°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 45° E 15ft END 45° E 15ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR WHITE	WATER DROPLET PLUME
START NONE	END NONE
DESCRIBE PLUME BACKGROUND BLUE SKY, DIRT, BLUE SKY, DIRT,	
START EQUIPMENT	END EQUIPMENT
BACKGROUND COLOR BROWN	SKY CONDITIONS MOIST, MISTY
START GREEN	END GREEN
WIND SPEED 10mph	WIND DIRECTION SSW
START 46°	END 49°
AMBIENT TEMP 46°	WET BULB TEMP 44°
START 46°	END 49°



ADDITIONAL INFORMATION
PROCESS EQUIPMENT : IMPACT CRUSHER #1

OBSERVATION DATE 1/24/22	START TIME 10:28	END TIME 10:58
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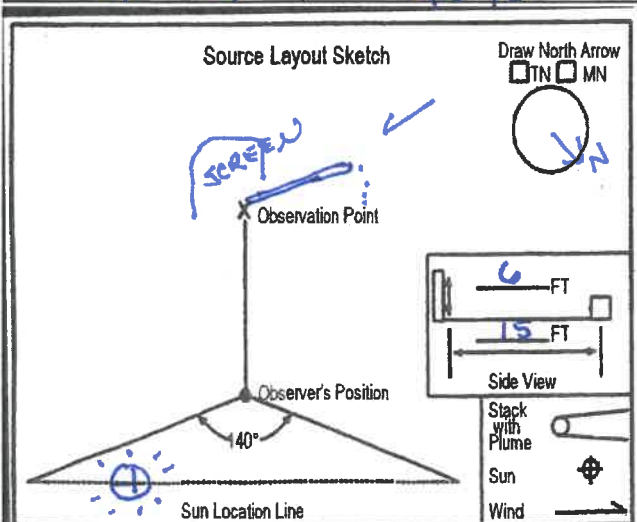
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OBSERVER'S NAME (PRINT) JOHN SILER	DATE 1/24/22
OBSERVER'S SIGNATURE <i>[Signature]</i>	DATE 1/24/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 11/22/21

VISIBLE EMISSION OBSERVATION FORM

13

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELL5/NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL TN	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE 02 POINT 13	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT SCREEN #1 TO CONVEYOR 2	
HEIGHT OF EMISSION POINT 6 ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 0 ft END 0 ft
DISTANCE TO EMISSION POINT 15 ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 315° END 315°
VERTICAL ANGLE TO OBSERVATION POINT START 0° END 0°	DIRECTION TO OBSERVATION POINT (DEGREES 0-360) START 45° END 45°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 45° @ 15 ft END 45° @ 15 ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE	END NONE
ATTACHED ☐ DETACHED ☐ NONE ☒	
DESCRIBE PLUME BACKGROUND EQUIPMENT	
START EQUIPMENT	END EQUIPMENT
BACKGROUND COLOR MULTI	SKY CONDITIONS FAIR
START MULTI	END FAIR
WIND SPEED 5 mph	WIND DIRECTION NW
START 5 mph	END NW
AMBIENT TEMP 46°	WET BULB TEMP 42°
START 46°	END 42°



ADDITIONAL INFORMATION PROCESS EQUIPMENT: SCREEN #1
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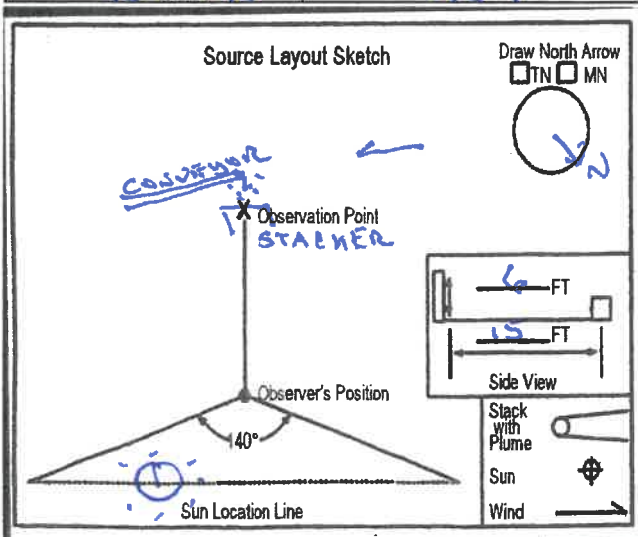
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OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE 	DATE 2/7/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 11/22/21

VISIBLE EMISSION OBSERVATION FORM

14

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTRUM CELLS/NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL TN	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE OF POINT 14	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT CONVEYOR TO STACKER 2	
HEIGHT OF EMISSION POINT 6 ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER 0 ft 0 ft
DISTANCE TO EMISSION POINT 15 ft 15 ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 315° END 315°
VERTICAL ANGLE TO OBSERVATION POINT 0° 0°	DIRECTION TO OBSERVATION POINT DEGREES (0-360) START 45° END 45°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 45° @ 15 ft END 45° @ 15 ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE	END NONE
DESCRIBE PLUME BACKGROUND BLUE SKY	
START EQUIPMENT	END EQUIPMENT
BACKGROUND COLOR	SKY CONDITIONS
START MULTI BLUE	END MULTI BLUE
WIND SPEED	WIND DIRECTION
START 5 mph	END 5 mph
AMBIENT TEMP	WET BULB TEMP
START 46°	END 46°
	42° 10



ADDITIONAL INFORMATION PROCESS EQUIPMENT: SCREEN #1
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OBSERVATION DATE 2/7/22	START TIME 10:48	END TIME 11:18
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OBSERVER'S NAME (PRINT) JOHN SILER	DATE 2/7/22
OBSERVER'S SIGNATURE <i>John Siler</i>	DATE 2/7/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLTON SMOKE SCHOOL	DATE 11/22/21

VISIBLE EMISSION OBSERVATION FORM

15

COMPANY NAME BARTON MAHOW COMPANY	
LOCATION DBA ULTIM CELL/NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE 02 POINT 15	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT STACKER 2 TO STACKER 3	
HEIGHT OF EMISSION POINT 6 ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 0 ft END 0 ft
DISTANCE TO EMISSION POINT 40 ft 40 ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 190° END 190°
VERTICAL ANGLE TO OBSERVATION POINT 0° 0°	DIRECTION TO OBSERVATION POINT (DEGREES 0-360) START 170° END 170°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 170° @ 40 ft END 170° @ 40 ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE END NONE	ATTACHED ☐ DETACHED ☐ NONE ☒
DESCRIBE PLUME BACKGROUND	
START SOIL	END SOIL
BACKGROUND COLOR BROWN	SKY CONDITIONS
START BROWN	START FAIR END FAIR
WIND SPEED 5 mph 9 mph	WIND DIRECTION
START 5 mph END 9 mph	START NW END W
AMBIENT TEMP 46°	WET BULB TEMP 36°
START 46° END 50°	RH percent 10

Source Layout Sketch	
Draw North Arrow ☐ TN ☐ MN	
WIND VARIES Observation Point Observer's Position Sun Location Line Side View Stack with Plume Sun Wind	
ADDITIONAL INFORMATION PROCESS EQUIPMENT: STACKER #2 STACKER #3	

OBSERVATION DATE 2/7/22		START TIME 11:18		END TIME 11:48	
SEC MIN	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
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8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
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23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE 	DATE 2/7/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 11/22/21

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

16

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELL/NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL TN	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE OR POINT 14	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT CRUSHER #2 TO CRUSHER BELT	
HEIGHT OF EMISSION POINT 6 ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 0 ft END 0 ft
DISTANCE TO EMISSION POINT 20 ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 135° END 135°
VERTICAL ANGLE TO OBSERVATION POINT 0°	DIRECTION TO OBSERVATION POINT (DEGREES 0-360) START 225° END 225°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 225° @ 20 ft END 225° @ 20 ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE	END NONE
DESCRIBE PLUME BACKGROUND EQUIPMENT, BLUE SKY	
START BLUE SKY	END BLUE SKY
BACKGROUND COLOR BLUE	SKY CONDITIONS MOISTLY CLOUDY
START GRAY	END GRAY
WIND SPEED 9 mph	WIND DIRECTION SSW
START SSW	END SSW
AMBIENT TEMP 47°	WET BULB TEMP 59°
START 47°	END 47°

Source Layout Sketch

Draw North Arrow
☐ TN ☐ MN

CRUSHER Observation Point

Observer's Position

140°

Sun Location Line

Side View

Stack with Plume

Sun

Wind

ADDITIONAL INFORMATION
PROCESS EQUIPMENT JAW CRUSHER #2

OBSERVATION DATE		START TIME		END TIME	
1/18/22		13:47		14:17	

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	5	0	5	0	
4	5	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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25	0	0	0	0	
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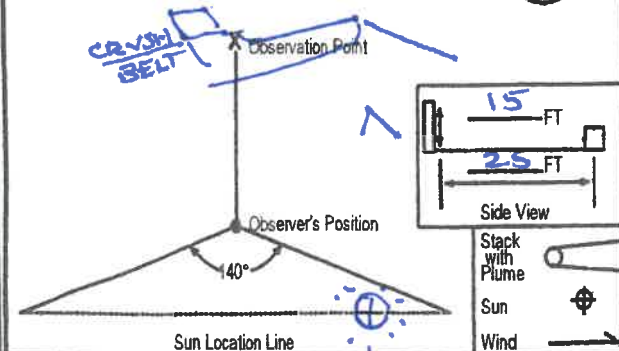
OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE <i>[Signature]</i>	DATE 1/18/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 1/22/21

VISIBLE EMISSION OBSERVATION FORM

17

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELL S/NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRINGHILL	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE 02 POINT 17	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT CRUSHER BELT TO SCREEN 2	
HEIGHT OF EMISSION POINT 15 ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 9 ft END 9 ft
DISTANCE TO EMISSION POINT 25 ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 135° END 135°
VERTICAL ANGLE TO OBSERVATION POINT 20°	DIRECTION TO OBSERVATION POINT DEGREES (0-360) START 225° END 225°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 225° @ 25 ft END 225° @ 25 ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE	END NONE
DESCRIBE PLUME BACKGROUND BLUE SKY	
START BLUE	END BLUE
BACKGROUND COLOR BLUE	SKY CONDITIONS MOSTLY CLOUDY
WIND SPEED 9 mph	WIND DIRECTION SSW
AMBIENT TEMP 47°	WET BULB TEMP 59°
END 47°	END 59°

Source Layout Sketch

Draw North Arrow
☐ TN ☐ MN

ADDITIONAL INFORMATION

PROCESS EQUIPMENT: JAW CRUSHER
#2, SCREEN #2

OBSERVATION DATE 1/18/22		START TIME 14:17		END TIME 14:47		
MIN	SEC	0	15	30	45	COMMENTS
1		0	0	0	0	
2		0	0	0	0	
3		0	0	0	0	
4		0	0	0	0	
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6		0	0	0	0	
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9		0	0	0	0	
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11		0	0	0	0	
12		0	0	0	0	
13		0	0	0	0	
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25		0	0	0	0	
26		0	0	0	0	
27		0	0	0	0	
28		0	0	0	0	
29		0	0	0	0	
30		0	0	0	0	

OBSERVER'S NAME (PRINT)

OBSERVER'S SIGNATURE

DATE

ORGANIZATION

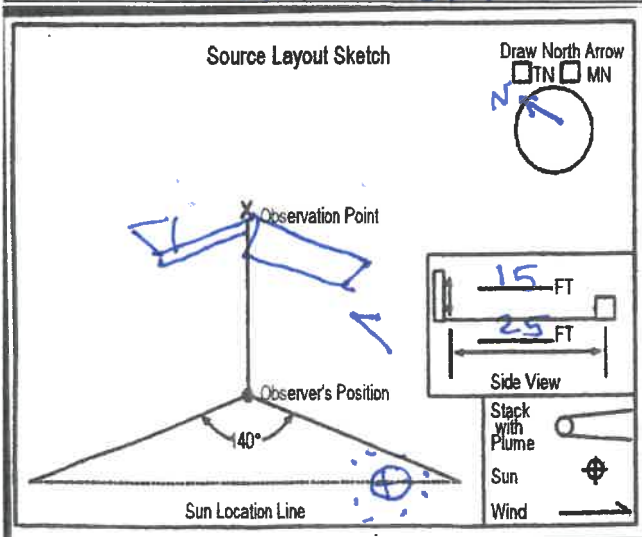
CERTIFIED BY

DATE

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

18

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELL / NIGHTSKY	
LOCATION 301 DONALD F IPHLIN PARKWAY	
CITY SPRING HILL TN	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE 02 POINT 18	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT SCREEN 2 FRED BELT TO TOP OF SCREEN	
HEIGHT OF EMISSION POINT 15 ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 9 ft END 9 ft
DISTANCE TO EMISSION POINT 25 ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 135° END 135°
VERTICAL ANGLE TO OBSERVATION POINT 20°	DIRECTION TO OBSERVATION POINT DEGREES (0-360) START 225° END 225°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 225° @ 25 ft END 225° @ 25 ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE	END NONE
ATTACHED ☐ DETACHED ☐ NONE ☒	
DESCRIBE PLUME BACKGROUND BLUE SKY	
START GREEN EQUIP	END GREEN EQUIP
BACKGROUND COLOR BLUE	SKY CONDITIONS BLUE, MOSTLY CLOUDY
START GREEN	END GREEN
WIND SPEED 9 mph	WIND DIRECTION SSW
START 47°	END 47°
AMBIENT TEMP 47°	WET BULB TEMP 59°
START 47°	END 47°



ADDITIONAL INFORMATION
PROCESS EQUIPMENT: SCREEN #2

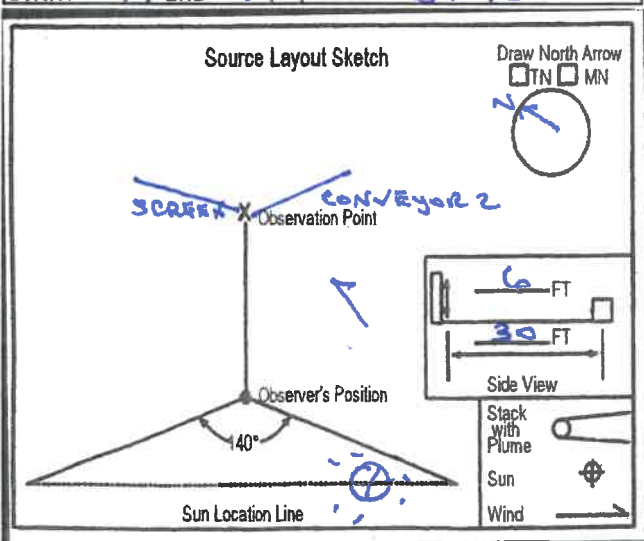
OBSERVATION DATE 11/18/22		START TIME 14:17		END TIME 14:47	
MIN	SEC	0	15	30	45
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3		0	0	0	0
4		0	0	0	0
5		0	0	0	0
6		0	0	0	0
7		0	0	0	0
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25		0	0	0	0
26		0	0	0	0
27		0	0	0	0
28		0	0	0	0
29		0	0	0	0
30		0	0	0	0

OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE <i>[Signature]</i>	DATE 11/18/22
ORGANIZATION EN SAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 11/22/21

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

19

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELL5 / NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE 02 POINT 19	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT SCREEN 2 TO CONVEYOR 2	
HEIGHT OF EMISSION POINT 6 ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 0 ft END 0 ft
DISTANCE TO EMISSION POINT START 30 ft END 30 ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 135° END 135°
VERTICAL ANGLE TO OBSERVATION POINT START 0° END 0°	DIRECTION TO OBSERVATION POINT (DEGREES 0-360) START 225° END 225°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 225° @ 30 ft END 225° @ 30 ft	
DESCRIBE EMISSIONS (AOLK DUST)	
START NONE END NONE	
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE END NONE	ATTACHED ☐ DETACHED ☐ NONE ☒
DESCRIBE PLUME BACKGROUND	
START BLUE SKY END BLUE SKY	
BACKGROUND COLOR BLUE	SKY CONDITIONS MOISTLY CLOUDY
START MOISTLY END MOISTLY	
WIND SPEED 9 mph	WIND DIRECTION
START SSW END SSW	
AMBIENT TEMP 47°	WET BULB TEMP 59°
START 47° END 47°	RH percent



ADDITIONAL INFORMATION PROCESS EQUIPMENT : SCREEN #2
--

OBSERVATION DATE		START TIME				END TIME
1/18/22		14:17				14:47

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE <i>[Signature]</i>	DATE 1/18/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 1/22/21

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

20

COMPANY NAME BARTON MALOW COMPANY		
LOCATION DBA ULTIM CELL'S NIGHTSKY		
LOCATION 301 DONALD F EPHLIN PARKWAY		
CITY SPRING HILL TN	STATE TN	ZIP 37174
PROCESS EQUIPMENT SOURCE OR POINT 20		OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION		OPERATING MODE OPERATING
DESCRIBE EMISSION POINT SCREEN CONVEYOR		
1 TO JAW CRUSHER #2		
HEIGHT OF EMISSION POINT 20ft		HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 14ft END 14ft
DISTANCE TO EMISSION POINT 25ft 25ft		DIRECTION TO EMISSION PT. (DEGREES 0-360) START 180° END 180°
VERTICAL ANGLE TO OBSERVATION POINT 30° 30°		DIRECTION TO OBSERVATION POINT DEGREES (0-360) START 180° END 180°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 180° @ 25ft END 180° @ 25ft		
DESCRIBE EMISSIONS (ROCK DUST)		
START NONE END NONE		
EMISSION COLOR (WHITE)		WATER DROPLET PLUME
START NONE END NONE		ATTACHED ☐ DETACHED ☐ NONE ☒
DESCRIBE PLUME BACKGROUND		
START EQUIPMENT END EQUIPMENT		
BACKGROUND COLOR MULTI MULTI		SKY CONDITIONS MOSTLY MOSTLY CLOUDY CLOUDY
WIND SPEED 9 mph 9 mph		WIND DIRECTION
START SSW END S		
AMBIENT TEMP 47° 49°		WET BULB TEMP 56°/10
RH percent		

Source Layout Sketch

Observer's Position

Observation Point

140°

20 FT

25 FT

WIND VARIES

Sun Location Line

Draw North Arrow

☒ TN ☐ MN

Side View

Stack with Plume

Sun

Wind

ADDITIONAL INFORMATION PROCESS EQUIPMENT: SCREENS #2
AND JAW CRUSHER #2

OBSERVATION DATE 1/18/22		START TIME 14:49		END TIME 15:19
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MIN	SEC				COMMENTS
	0	15	30	45	
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE 	DATE 1/18/22
ORGANIZATION IEKSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 1/22/21

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

21

COMPANY NAME BARTON MALOW COMPANY		
LOCATION DBA ULTIM CELL (NIGHTSKY)		
LOCATION 301 DONALD F EPHLIN PARKWAY		
CITY SPRING HILL TN	STATE TN	ZIP 37174
PROCESS EQUIPMENT SOURCE 02 POINT 21		OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION		OPERATING MODE OPERATING
DESCRIBE EMISSION POINT IMPACT CRUSHER		
HEIGHT OF EMISSION POINT 6 ft		HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 0° END 0°
DISTANCE TO EMISSION POINT START 20 ft END 20 ft		DIRECTION TO EMISSION PT. (DEGREES 0-360) START 225° END 225°
VERTICAL ANGLE TO OBSERVATION POINT START 0° END 0°		DIRECTION TO OBSERVATION POINT (DEGREES 0-360) START 135° END 135°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 135° @ 20 ft END 135° @ 20 ft		
DESCRIBE EMISSIONS (ROCK DUST)		
START NONE END NONE		WATER DROPLET PLUME
EMISSION COLOR (WHITE)		ATTACHED ☐ DETACHED ☐ NONE ☒
DESCRIBE PLUME BACKGROUND		
START EQUIPMENT END EQUIPMENT		SKY CONDITIONS
BACKGROUND COLOR MULTI END MULTI		START MOSTLY CLOUDY END MOSTLY CLOUDY
WIND SPEED START 7 mph END 7 mph		WIND DIRECTION START S END S
AMBIENT TEMP START 59° END 59°		WET BULB TEMP 32° RH percent

Source Layout Sketch

Draw North Arrow
☐ TN ☐ MN

Side View
Stack with Plume
Sun
Wind

ADDITIONAL INFORMATION
PROCESS EQUIPMENT : IMPACT CRUSHER

OBSERVATION DATE 1/24/22		START TIME 14:34		END TIME 15:04	
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MIN	SEC	0	15	30	45	COMMENTS
1	0	0	0	0		
2	0	5	5	0		
3	0	0	5	0		
4	0	0	0	0		
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11	0	0	0	0		
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26	0	0	0	0		
27	0	0	0	0		
28	0	0	0	0		
29	0	0	0	0		
30	0	0	0	0		

OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE 	DATE 1/24/22
ORGANIZATION ENSAF	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 1/22/21

VISIBLE EMISSION OBSERVATION FORM

22

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELL/NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL TN	STATE 37174
PROCESS EQUIPMENT SOURCE OF POINT 22	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT IMPACT CRUSHER 2 TO STACKER 4	
HEIGHT OF EMISSION POINT 6ft	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 0ft END 0ft
DISTANCE TO EMISSION POINT START 15ft END 15ft	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 180° END 180°
VERTICAL ANGLE TO OBSERVATION POINT START 0° END 0°	DIRECTION TO OBSERVATION POINT (DEGREES 0-360) START 180° END 180°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 180° @ 15ft END 180° @ 15ft	
DESCRIBE EMISSIONS (ROUGH DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE	END NONE
DESCRIBE PLUME BACKGROUND	
START EQUIPMENT	END EQUIPMENT
BACKGROUND COLOR MULTI MULTI	SKY CONDITIONS MOSTLY CLOUDY MOSTLY CLOUDY
START 9 mph	END 9 mph
WIND SPEED	WIND DIRECTION
START 9 mph	END 9 mph
AMBIENT TEMP START 47°	WET BULB TEMP START 56°
END 49°	END 56°

Source Layout Sketch	
Draw North Arrow ☐ TN ☐ MN	
WIND VARIES Sun Location Line 140° Stack with Plume Sun Wind	
ADDITIONAL INFORMATION PROCESS EQUIPMENT: IMPACT CRUSHER 2	

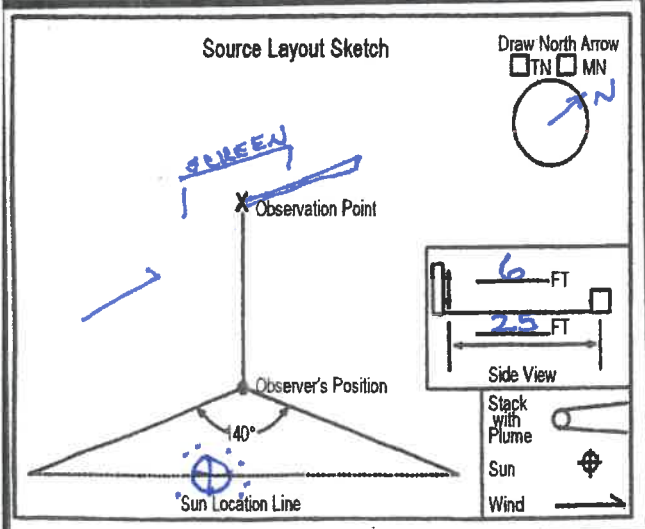
OBSERVATION DATE 1/18/22		START TIME 14:49		END TIME 15:19		
MIN	SEC	0	15	30	45	COMMENTS
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3		0	0	0	0	
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6		0	0	0	0	
7		0	0	0	0	
8		0	0	0	0	
9		0	0	0	0	
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27		0	0	0	0	
28		0	0	0	0	
29		0	0	0	0	
30		0	0	0	0	

OBSERVER'S NAME (PRINT) JOHN SILVER	
OBSERVER'S SIGNATURE	DATE 1/18/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE SCHOOL	DATE 1/22/21

**EPA METHOD 9 (40 CFR 60 - Apperidix A)
VISIBLE EMISSION OBSERVATION FORM**

23

COMPANY NAME BARTON MALOW COMPANY		
LOCATION DBA VLTWN CELLS/NIGHTSKY		
LOCATION 301 DONALD F EPHLIN PARKWAY		
CITY SPRING HILL TN	STATE TN	ZIP 37174
PROCESS EQUIPMENT SCREEN 2 POINT 23		OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION		OPERATING MODE OPERATING
DESCRIBE EMISSION POINT STACKER CONVEYOR 5		
HEIGHT OF EMISSION POINT SCREEN 2 TO CONVEYOR 5		
HEIGHT OF EMISSION POINT 6 ft		HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER 0 ft
DISTANCE TO EMISSION POINT 25 ft		DIRECTION TO EMISSION PT. (DEGREES 0-360)) 225°
START 25 ft		END 25 ft
VERTICAL ANGLE TO OBSERVATION POINT 0°		DIRECTION TO OBSERVATION POINT DEGREES (0-360)) 135°
START 0°		END 135°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT 135° @ 25 ft		
START 135° @ 25 ft		
END 135° @ 25 ft		
DESCRIBE EMISSIONS (ROCK DUST)		
START NONE		END NONE
EMISSION COLOR (WHITE)		WATER DROPLET PLUME
START NONE		END NONE
ATTACHED ☐ DETACHED ☐ NONE ☒		
DESCRIBE PLUME BACKGROUND		
START EQUIPMENT		END EQUIPMENT
BACKGROUND COLOR MULTI MULTI		SKY CONDITIONS MOSTLY MOSTLY
START CLOUDY		END CLOUDY
WIND SPEED 9 mph		
START 9 mph		END 9 mph
AMBIENT TEMP 49°		WET BULB TEMP 56°
START 49°		END 49°



ADDITIONAL INFORMATION
PROCESS EQUIPMENT: SCREEN 2

OBSERVATION DATE		START TIME		END TIME	
1/18/22		15:21		15:51	

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

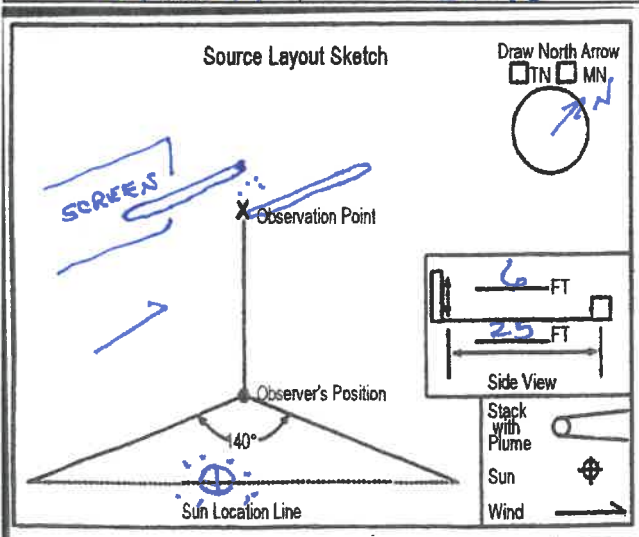
OBSERVER'S NAME (PRINT) JOHN SILER	
OBSERVER'S SIGNATURE <i>[Signature]</i>	DATE 1/18/22
ORGANIZATION ENSAFE	
CERTIFIED BY SINGLETON SMOKE	DATE 1/22/21
SCHOOL	

EMISSION POINT IS SCREEN 2 DROP TO CONVEYOR 2

VISIBLE EMISSION OBSERVATION FORM

24

COMPANY NAME BARTON MALOW COMPANY	
LOCATION DBA ULTIM CELL/NIGHTSKY	
LOCATION 301 DONALD F EPHLIN PARKWAY	
CITY SPRING HILL TN	STATE TN
ZIP 37174	
PROCESS EQUIPMENT SOURCE OF POINT 24	OPERATING MODE OPERATING
CONTROL EQUIPMENT WET SUPPRESSION	OPERATING MODE OPERATING
DESCRIBE EMISSION POINT CONVEYOR TO STACKER 5 STACKER 52 TO STACKER 6	
HEIGHT OF EMISSION POINT 6 feet	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 9 ft END 9 ft
DISTANCE TO EMISSION POINT 25 feet	DIRECTION TO EMISSION PT. (DEGREES 0-360) START 225° END 225°
VERTICAL ANGLE TO OBSERVATION POINT START 0° END 0°	DIRECTION TO OBSERVATION POINT DEGREES (0-360) START 135° END 135°
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 135° @ 25 ft END 135° @ 25 ft	
DESCRIBE EMISSIONS (ROCK DUST)	
START NONE	END NONE
EMISSION COLOR (WHITE)	WATER DROPLET PLUME
START NONE END NONE	ATTACHED ☐ DETACHED ☐ NONE ☒
DESCRIBE PLUME BACKGROUND SKY, CLOUDS, CRANE	
START SKY, CLOUDS, CRANE	END SKY, CLOUDS, CRANE
BACKGROUND COLOR GREEN, BROWN, BLUE	SKY CONDITIONS MOSTLY CLOUDY
START GREEN, BROWN, BLUE	END MOSTLY CLOUDY
WIND SPEED 9 mph	WIND DIRECTION S
START 9 mph	END S
AMBIENT TEMP 49°	WET BULB TEMP 56%
START 49°	END 56%



ADDITIONAL INFORMATION PROCESS EQUIPMENT: STACKER 5 STACKER 6

OBSERVATION DATE 1/18/22	START TIME 15:21	END TIME 15:51
-----------------------------	---------------------	-------------------

MIN	SEC	0	15	30	45	COMMENTS
1		0	0	0	0	
2		0	0	0	0	
3		0	0	0	0	
4		0	0	0	0	
5		0	0	0	0	
6		0	0	0	0	
7		0	0	0	0	
8		0	0	0	0	
9		0	0	0	0	
10		0	0	0	0	
11		0	0	0	0	
12		0	0	0	0	
13		0	0	0	0	
14		0	0	0	0	
15		0	0	0	0	
16		0	0	0	0	
17		0	0	0	0	
18		0	0	0	0	
19		0	0	0	0	
20		0	0	0	0	
21		0	0	0	0	
22		0	0	0	0	
23		0	0	0	0	
24		0	0	0	0	
25		0	0	0	0	
26		0	0	0	0	
27		0	0	0	0	
28		0	0	0	0	
29		0	0	0	0	
30		0	0	0	0	

OBSERVER'S NAME (PRINT) JOHN SILER	DATE 1/18/22
OBSERVER'S SIGNATURE [Signature]	DATE 1/18/22
ORGANIZATION ENSAFIE	
CERTIFIED BY SINGLETON SMOKE	DATE 1/22/21
SCHOOL	

EMISSION POINT IS CONVEYOR 2 FROM SCREENER 2 TO STACKER 5

Barton Malow Point 11

Page	Minute					6-minute averages			
1	1	0	0	0	0				
1	2	0	5	0	5				
1	3	0	0	5	5				
1	4	0	0	5	0				
1	5	0	0	0	0				
1	6	5	0	0	0				1.25
1	7	0	0	0	0	1.25	1.25	1.25	1.25
1	8	0	0	0	0	1.25	1.04	1.04	0.83
1	9	0	0	0	0	0.83	0.83	0.63	0.42
1	10	0	0	0	0	0.42	0.42	0.21	0.21
1	11	0	5	0	0	0.21	0.42	0.42	0.42
1	12	0	0	0	0	0.21	0.21	0.21	0.21
1	13	0	0	0	0	0.21	0.21	0.21	0.21
1	14	0	0	0	0	0.21	0.21	0.21	0.21
1	15	0	0	0	5	0.21	0.21	0.21	0.42
1	16	5	5	0	0	0.63	0.83	0.83	0.83
1	17	0	5	5	0	0.83	0.83	1.04	1.04
1	18	0	0	0	5	1.04	1.04	1.04	1.25
1	19	5	5	0	0	1.46	1.67	1.67	1.67
1	20	5	5	0	5	1.88	2.08	2.08	2.29
1	21	0	0	0	5	2.29	2.29	2.29	2.29
1	22	5	0	0	0	2.29	2.08	2.08	2.08
1	23	0	0	0	5	2.08	1.88	1.67	1.88
1	24	5	5	0	0	2.08	2.29	2.29	2.08
1	25	0	0	0	0	1.88	1.67	1.67	1.67
1	26	0	0	0	0	1.46	1.25	1.25	1.04
1	27	0	0	0	0	1.04	1.04	1.04	0.83
1	28	0	0	0	5	0.63	0.63	0.63	0.83
1	29	0	0	0	0	0.83	0.83	0.83	0.63
1	30	0	0	5	0	0.42	0.21	0.42	0.42
1st 30 min, start-up									
2	1	0	0	0	0	0.42	0.42	0.42	0.42
2	2	0	0	0	0	0.42	0.42	0.42	0.42
2	3	0	0	0	0	0.42	0.42	0.42	0.42
2	4	0	0	0	0	0.42	0.42	0.42	0.21
2	5	0	0	0	0	0.21	0.21	0.21	0.21
2	6	0	0	0	0	0.21	0.21	0.00	0.00
2	7	0	0	0	0	0.00	0.00	0.00	0.00
2	8	0	0	0	0	0.00	0.00	0.00	0.00
2	9	0	0	0	0	0.00	0.00	0.00	0.00
2	10	0	0	0	0	0.00	0.00	0.00	0.00
2	11	0	0	0	0	0.00	0.00	0.00	0.00
2	12	0	0	0	0	0.00	0.00	0.00	0.00
2	13	0	0	0	0	0.00	0.00	0.00	0.00
2	14	0	0	0	0	0.00	0.00	0.00	0.00
2	15	0	0	0	0	0.00	0.00	0.00	0.00
2	16	0	0	0	0	0.00	0.00	0.00	0.00
2	17	0	0	0	0	0.00	0.00	0.00	0.00
2	18	0	0	0	0	0.00	0.00	0.00	0.00
2	19	0	0	0	0	0.00	0.00	0.00	0.00
2	20	0	0	0	0	0.00	0.00	0.00	0.00
2	21	0	0	0	0	0.00	0.00	0.00	0.00
2	22	0	0	0	0	0.00	0.00	0.00	0.00
2	23	0	0	0	0	0.00	0.00	0.00	0.00

2	24	0	0	0	0	0.00	0.00	0.00	0.00
2	25	0	0	0	0	0.00	0.00	0.00	0.00
2	26	0	0	0	0	0.00	0.00	0.00	0.00
2	27	0	0	0	0	0.00	0.00	0.00	0.00
2	28	0	0	0	0	0.00	0.00	0.00	0.00
2	29	0	0	0	0	0.00	0.00	0.00	0.00
2	30	0	0	0	0	0.00	0.00	0.00	0.00
3	1	0	0	0	0	0.00	0.00	0.00	0.00
3	2	0	0	0	0	0.00	0.00	0.00	0.00
3	3	0	0	0	0	0.00	0.00	0.00	0.00
3	4	0	0	0	0	0.00	0.00	0.00	0.00
3	5	0	0	0	0	0.00	0.00	0.00	0.00
3	6	0	0	0	0	0.00	0.00	0.00	0.00
3	7	0	0	0	0	0.00	0.00	0.00	0.00
3	8	0	0	0	0	0.00	0.00	0.00	0.00
3	9	0	0	0	0	0.00	0.00	0.00	0.00
3	10	0	0	0	0	0.00	0.00	0.00	0.00
3	11	0	0	0	0	0.00	0.00	0.00	0.00
3	12	0	0	0	0	0.00	0.00	0.00	0.00
3	13	0	0	0	0	0.00	0.00	0.00	0.00
3	14	0	0	0	0	0.00	0.00	0.00	0.00
3	15	0	0	0	0	0.00	0.00	0.00	0.00
3	16	0	0	0	0	0.00	0.00	0.00	0.00
3	17	0	0	0	0	0.00	0.00	0.00	0.00
3	18	0	0	0	0	0.00	0.00	0.00	0.00
3	19	0	0	0	0	0.00	0.00	0.00	0.00
3	20	0	0	0	0	0.00	0.00	0.00	0.00
3	21	0	0	0	0	0.00	0.00	0.00	0.00
3	22	0	0	0	0	0.00	0.00	0.00	0.00
3	23	0	0	0	0	0.00	0.00	0.00	0.00
3	24	0	0	0	0	0.00	0.00	0.00	0.00
3	25	0	0	0	0	0.00	0.00	0.00	0.00
3	26	0	0	0	0	0.00	0.00	0.00	0.00
3	27	0	0	0	0	0.00	0.00	0.00	0.00
3	28	0	0	0	0	0.00	0.00	0.00	0.00
3	29	0	0	0	0	0.00	0.00	0.00	0.00
3	30	0	0	0	0	0.00	0.00	0.00	0.00
4	1	0	0	0	0	0.00	0.00	0.00	0.00
4	2	0	0	0	0	0.00	0.00	0.00	0.00
4	3	0	0	0	0	0.00	0.00	0.00	0.00
4	4	0	0	0	0	0.00	0.00	0.00	0.00
4	5	0	0	0	0	0.00	0.00	0.00	0.00
4	6	0	0	0	0	0.00	0.00	0.00	0.00
4	7	0	0	0	0	0.00	0.00	0.00	0.00
4	8	0	0	0	0	0.00	0.00	0.00	0.00
4	9	0	0	0	0	0.00	0.00	0.00	0.00
4	10	0	0	0	0	0.00	0.00	0.00	0.00
4	11	0	0	0	0	0.00	0.00	0.00	0.00
4	12	0	0	0	0	0.00	0.00	0.00	0.00
4	13	0	0	0	0	0.00	0.00	0.00	0.00
4	14	0	0	0	0	0.00	0.00	0.00	0.00
4	15	0	0	0	0	0.00	0.00	0.00	0.00
4	16	0	0	0	0	0.00	0.00	0.00	0.00
4	17	0	0	0	0	0.00	0.00	0.00	0.00
4	18	0	0	0	0	0.00	0.00	0.00	0.00
4	19	0	0	0	0	0.00	0.00	0.00	0.00
4	20	0	0	0	0	0.00	0.00	0.00	0.00

4	21	0	0	0	0	0.00	0.00	0.00	0.00
4	22	0	0	0	0	0.00	0.00	0.00	0.00
4	23	0	0	0	0	0.00	0.00	0.00	0.00
4	24	0	0	0	0	0.00	0.00	0.00	0.00
4	25	0	0	0	0	0.00	0.00	0.00	0.00
4	26	0	0	0	0	0.00	0.00	0.00	0.00
4	27	0	0	0	0	0.00	0.00	0.00	0.00
4	28	0	0	0	0	0.00	0.00	0.00	0.00
4	29	0	0	0	0	0.00	0.00	0.00	0.00
4	30	0	0	0	0	0.00	0.00	0.00	0.00
5	1	0	0	0	0	0.00	0.00	0.00	0.00
5	2	0	0	0	0	0.00	0.00	0.00	0.00
5	3	0	0	0	0	0.00	0.00	0.00	0.00
5	4	0	0	0	0	0.00	0.00	0.00	0.00
5	5	0	0	0	0	0.00	0.00	0.00	0.00
5	6	0	0	0	0	0.00	0.00	0.00	0.00
5	7	0	0	0	0	0.00	0.00	0.00	0.00
5	8	0	0	0	0	0.00	0.00	0.00	0.00
5	9	0	0	0	0	0.00	0.00	0.00	0.00
5	10	0	0	0	0	0.00	0.00	0.00	0.00
5	11	0	0	0	0	0.00	0.00	0.00	0.00
5	12	0	0	0	0	0.00	0.00	0.00	0.00
5	13	0	0	0	0	0.00	0.00	0.00	0.00
5	14	0	0	0	0	0.00	0.00	0.00	0.00
5	15	0	0	0	0	0.00	0.00	0.00	0.00
5	16	0	0	0	0	0.00	0.00	0.00	0.00
5	17	0	0	0	0	0.00	0.00	0.00	0.00
5	18	0	0	0	0	0.00	0.00	0.00	0.00
5	19	0	0	0	0	0.00	0.00	0.00	0.00
5	20	0	0	0	0	0.00	0.00	0.00	0.00
5	21	0	0	0	0	0.00	0.00	0.00	0.00
5	22	0	0	0	0	0.00	0.00	0.00	0.00
5	23	0	0	0	0	0.00	0.00	0.00	0.00
5	24	0	0	0	0	0.00	0.00	0.00	0.00
5	25	0	0	0	0	0.00	0.00	0.00	0.00
5	26	0	0	0	0	0.00	0.00	0.00	0.00
5	27	0	0	0	0	0.00	0.00	0.00	0.00
5	28	0	0	0	0	0.00	0.00	0.00	0.00
5	29	0	0	0	0	0.00	0.00	0.00	0.00
5	30	0	0	0	0	0.00	0.00	0.00	0.00
6	1	0	0	0	0	0.00	0.00	0.00	0.00
6	2	0	0	0	0	0.00	0.00	0.00	0.00
6	3	0	0	0	0	0.00	0.00	0.00	0.00
6	4	0	0	0	0	0.00	0.00	0.00	0.00
6	5	0	0	0	0	0.00	0.00	0.00	0.00
6	6	0	0	0	0	0.00	0.00	0.00	0.00
6	7	0	0	0	0	0.00	0.00	0.00	0.00
6	8	0	0	0	0	0.00	0.00	0.00	0.00
6	9	0	0	0	0	0.00	0.00	0.00	0.00
6	10	0	0	0	0	0.00	0.00	0.00	0.00
6	11	0	0	0	0	0.00	0.00	0.00	0.00
6	12	0	0	0	0	0.00	0.00	0.00	0.00
6	13	0	0	0	0	0.00	0.00	0.00	0.00
6	14	0	0	0	0	0.00	0.00	0.00	0.00
6	15	0	0	0	0	0.00	0.00	0.00	0.00
6	16	0	0	0	0	0.00	0.00	0.00	0.00
6	17	0	0	0	0	0.00	0.00	0.00	0.00

6	18	0	0	0	0	0.00	0.00	0.00	0.00
6	19	0	0	0	0	0.00	0.00	0.00	0.00
6	20	0	0	0	0	0.00	0.00	0.00	0.00
6	21	0	0	0	0	0.00	0.00	0.00	0.00
6	22	0	0	0	0	0.00	0.00	0.00	0.00
6	23	0	0	0	0	0.00	0.00	0.00	0.00
6	24	0	0	0	0	0.00	0.00	0.00	0.00
6	25	0	0	0	0	0.00	0.00	0.00	0.00
6	26	0	0	0	0	0.00	0.00	0.00	0.00
6	27	0	0	0	0	0.00	0.00	0.00	0.00
6	28	0	0	0	0	0.00	0.00	0.00	0.00
6	29	0	0	0	0	0.00	0.00	0.00	0.00
6	30	0	0	0	0	0.00	0.00	0.00	0.00

Max during startup

2.29

Max after startup

0.42

Barton Malow Point 16

Page	Minute					6-minute averages			
1	1	0	0	0	0				
1	2	0	0	0	0				
1	3	5	0	5	0				
1	4	5	0	0	0				
1	5	0	0	0	0				
1	6	0	0	0	0				0.63
1	7	0	0	0	0	0.63	0.63	0.63	0.63
1	8	0	0	0	0	0.63	0.63	0.63	0.63
1	9	5	5	0	0	0.63	0.83	0.63	0.63
1	10	0	0	0	0	0.42	0.42	0.42	0.42
1	11	0	5	5	0	0.42	0.63	0.83	0.83
1	12	0	0	0	0	0.83	0.83	0.83	0.83
1	13	0	0	0	5	0.83	0.83	0.83	1.04
1	14	5	5	5	0	1.25	1.46	1.67	1.67
1	15	0	0	0	0	1.46	1.25	1.25	1.25
1	16	0	0	0	0	1.25	1.25	1.25	1.25
1	17	5	0	0	0	1.46	1.25	1.04	1.04
1	18	0	5	0	0	1.04	1.25	1.25	1.25
1	19	0	0	0	0	1.25	1.25	1.25	1.04
1	20	0	5	0	0	0.83	0.83	0.63	0.63
1	21	0	5	0	0	0.63	0.83	0.83	0.83
1	22	0	0	0	0	0.83	0.83	0.83	0.83
1	23	0	0	0	0	0.63	0.63	0.63	0.63
1	24	0	0	5	0	0.63	0.42	0.63	0.63
1	25	0	0	0	0	0.63	0.63	0.63	0.63
1	26	0	0	0	5	0.63	0.42	0.42	0.63
1	27	0	0	5	0	0.63	0.42	0.63	0.63
1	28	0	0	0	0	0.63	0.63	0.63	0.63
1	29	0	0	0	0	0.63	0.63	0.63	0.63
1	30	0	0	0	0	0.63	0.63	0.42	0.42
1st 30 min, start-up									
2	1	0	0	0	0	0.42	0.42	0.42	0.42
2	2	0	0	0	0	0.42	0.42	0.42	0.21
2	3	0	0	0	0	0.21	0.21	0.00	0.00
2	4	0	0	0	0	0.00	0.00	0.00	0.00
2	5	0	0	0	0	0.00	0.00	0.00	0.00
2	6	0	0	0	0	0.00	0.00	0.00	0.00
2	7	0	0	0	0	0.00	0.00	0.00	0.00
2	8	0	0	0	0	0.00	0.00	0.00	0.00
2	9	0	0	0	0	0.00	0.00	0.00	0.00
2	10	0	0	0	0	0.00	0.00	0.00	0.00
2	11	0	0	0	0	0.00	0.00	0.00	0.00
2	12	0	0	0	0	0.00	0.00	0.00	0.00
2	13	0	0	0	0	0.00	0.00	0.00	0.00
2	14	0	0	0	0	0.00	0.00	0.00	0.00
2	15	0	0	0	0	0.00	0.00	0.00	0.00
2	16	0	0	0	0	0.00	0.00	0.00	0.00
2	17	0	0	0	0	0.00	0.00	0.00	0.00
2	18	0	0	0	0	0.00	0.00	0.00	0.00
2	19	0	0	0	0	0.00	0.00	0.00	0.00
2	20	0	0	0	0	0.00	0.00	0.00	0.00
2	21	0	0	0	0	0.00	0.00	0.00	0.00
2	22	0	0	0	0	0.00	0.00	0.00	0.00
2	23	0	0	0	0	0.00	0.00	0.00	0.00

2	24	0	0	0	0	0.00	0.00	0.00	0.00
2	25	0	0	0	0	0.00	0.00	0.00	0.00
2	26	0	0	0	0	0.00	0.00	0.00	0.00
2	27	0	0	0	0	0.00	0.00	0.00	0.00
2	28	0	0	0	0	0.00	0.00	0.00	0.00
2	29	0	0	0	0	0.00	0.00	0.00	0.00
2	30	0	0	0	0	0.00	0.00	0.00	0.00
3	1	0	0	0	0	0.00	0.00	0.00	0.00
3	2	0	0	0	0	0.00	0.00	0.00	0.00
3	3	0	0	0	0	0.00	0.00	0.00	0.00
3	4	0	0	0	0	0.00	0.00	0.00	0.00
3	5	0	0	0	0	0.00	0.00	0.00	0.00
3	6	0	0	0	0	0.00	0.00	0.00	0.00
3	7	0	0	0	0	0.00	0.00	0.00	0.00
3	8	0	0	0	0	0.00	0.00	0.00	0.00
3	9	0	0	0	0	0.00	0.00	0.00	0.00
3	10	0	0	0	0	0.00	0.00	0.00	0.00
3	11	0	0	0	0	0.00	0.00	0.00	0.00
3	12	0	0	0	0	0.00	0.00	0.00	0.00
3	13	0	0	0	0	0.00	0.00	0.00	0.00
3	14	0	0	0	0	0.00	0.00	0.00	0.00
3	15	0	0	0	0	0.00	0.00	0.00	0.00
3	16	0	0	0	0	0.00	0.00	0.00	0.00
3	17	0	0	0	0	0.00	0.00	0.00	0.00
3	18	0	0	0	0	0.00	0.00	0.00	0.00
3	19	0	0	0	0	0.00	0.00	0.00	0.00
3	20	0	0	0	0	0.00	0.00	0.00	0.00
3	21	0	0	0	0	0.00	0.00	0.00	0.00
3	22	0	0	0	0	0.00	0.00	0.00	0.00
3	23	0	0	0	0	0.00	0.00	0.00	0.00
3	24	0	0	0	0	0.00	0.00	0.00	0.00
3	25	0	0	0	0	0.00	0.00	0.00	0.00
3	26	0	0	0	0	0.00	0.00	0.00	0.00
3	27	0	0	0	0	0.00	0.00	0.00	0.00
3	28	0	0	0	0	0.00	0.00	0.00	0.00
3	29	0	0	0	0	0.00	0.00	0.00	0.00
3	30	0	0	0	0	0.00	0.00	0.00	0.00
4	1	0	0	0	0	0.00	0.00	0.00	0.00
4	2	0	0	0	0	0.00	0.00	0.00	0.00
4	3	0	0	0	0	0.00	0.00	0.00	0.00
4	4	0	0	0	0	0.00	0.00	0.00	0.00
4	5	0	0	0	0	0.00	0.00	0.00	0.00
4	6	0	0	0	0	0.00	0.00	0.00	0.00
4	7	0	0	0	0	0.00	0.00	0.00	0.00
4	8	0	0	0	0	0.00	0.00	0.00	0.00
4	9	0	0	0	0	0.00	0.00	0.00	0.00
4	10	0	0	0	0	0.00	0.00	0.00	0.00
4	11	0	0	0	0	0.00	0.00	0.00	0.00
4	12	0	0	0	0	0.00	0.00	0.00	0.00
4	13	0	0	0	0	0.00	0.00	0.00	0.00
4	14	0	0	0	0	0.00	0.00	0.00	0.00
4	15	0	0	0	0	0.00	0.00	0.00	0.00
4	16	0	0	0	0	0.00	0.00	0.00	0.00
4	17	0	0	0	0	0.00	0.00	0.00	0.00
4	18	0	0	0	0	0.00	0.00	0.00	0.00
4	19	0	0	0	0	0.00	0.00	0.00	0.00
4	20	0	0	0	0	0.00	0.00	0.00	0.00

4	21	0	0	0	0	0.00	0.00	0.00	0.00
4	22	0	0	0	0	0.00	0.00	0.00	0.00
4	23	0	0	0	0	0.00	0.00	0.00	0.00
4	24	0	0	0	0	0.00	0.00	0.00	0.00
4	25	0	0	0	0	0.00	0.00	0.00	0.00
4	26	0	0	0	0	0.00	0.00	0.00	0.00
4	27	0	0	0	0	0.00	0.00	0.00	0.00
4	28	0	0	0	0	0.00	0.00	0.00	0.00
4	29	0	0	0	0	0.00	0.00	0.00	0.00
4	30	0	0	0	0	0.00	0.00	0.00	0.00
5	1	0	0	0	0	0.00	0.00	0.00	0.00
5	2	0	0	0	0	0.00	0.00	0.00	0.00
5	3	0	0	0	0	0.00	0.00	0.00	0.00
5	4	0	0	0	0	0.00	0.00	0.00	0.00
5	5	0	0	0	0	0.00	0.00	0.00	0.00
5	6	0	0	0	0	0.00	0.00	0.00	0.00
5	7	0	0	0	0	0.00	0.00	0.00	0.00
5	8	0	0	0	0	0.00	0.00	0.00	0.00
5	9	0	0	0	0	0.00	0.00	0.00	0.00
5	10	0	0	0	0	0.00	0.00	0.00	0.00
5	11	0	0	0	0	0.00	0.00	0.00	0.00
5	12	0	0	0	0	0.00	0.00	0.00	0.00
5	13	0	0	0	0	0.00	0.00	0.00	0.00
5	14	0	0	0	0	0.00	0.00	0.00	0.00
5	15	0	0	0	0	0.00	0.00	0.00	0.00
5	16	0	0	0	0	0.00	0.00	0.00	0.00
5	17	0	0	0	0	0.00	0.00	0.00	0.00
5	18	0	0	0	0	0.00	0.00	0.00	0.00
5	19	0	0	0	0	0.00	0.00	0.00	0.00
5	20	0	0	0	0	0.00	0.00	0.00	0.00
5	21	0	0	0	0	0.00	0.00	0.00	0.00
5	22	0	0	0	0	0.00	0.00	0.00	0.00
5	23	0	0	0	0	0.00	0.00	0.00	0.00
5	24	0	0	0	0	0.00	0.00	0.00	0.00
5	25	0	0	0	0	0.00	0.00	0.00	0.00
5	26	0	0	0	0	0.00	0.00	0.00	0.00
5	27	0	0	0	0	0.00	0.00	0.00	0.00
5	28	0	0	0	0	0.00	0.00	0.00	0.00
5	29	0	0	0	0	0.00	0.00	0.00	0.00
5	30	0	0	0	0	0.00	0.00	0.00	0.00
6	1	0	0	0	0	0.00	0.00	0.00	0.00
6	2	0	0	0	0	0.00	0.00	0.00	0.00
6	3	0	0	0	0	0.00	0.00	0.00	0.00
6	4	0	0	0	0	0.00	0.00	0.00	0.00
6	5	0	0	0	0	0.00	0.00	0.00	0.00
6	6	0	0	0	0	0.00	0.00	0.00	0.00
6	7	0	0	0	0	0.00	0.00	0.00	0.00
6	8	0	0	0	0	0.00	0.00	0.00	0.00
6	9	0	0	0	0	0.00	0.00	0.00	0.00
6	10	0	0	0	0	0.00	0.00	0.00	0.00
6	11	0	0	0	0	0.00	0.00	0.00	0.00
6	12	0	0	0	0	0.00	0.00	0.00	0.00
6	13	0	0	0	0	0.00	0.00	0.00	0.00
6	14	0	0	0	0	0.00	0.00	0.00	0.00
6	15	0	0	0	0	0.00	0.00	0.00	0.00
6	16	0	0	0	0	0.00	0.00	0.00	0.00
6	17	0	0	0	0	0.00	0.00	0.00	0.00

6	18	0	0	0	0	0.00	0.00	0.00	0.00
6	19	0	0	0	0	0.00	0.00	0.00	0.00
6	20	0	0	0	0	0.00	0.00	0.00	0.00
6	21	0	0	0	0	0.00	0.00	0.00	0.00
6	22	0	0	0	0	0.00	0.00	0.00	0.00
6	23	0	0	0	0	0.00	0.00	0.00	0.00
6	24	0	0	0	0	0.00	0.00	0.00	0.00
6	25	0	0	0	0	0.00	0.00	0.00	0.00
6	26	0	0	0	0	0.00	0.00	0.00	0.00
6	27	0	0	0	0	0.00	0.00	0.00	0.00
6	28	0	0	0	0	0.00	0.00	0.00	0.00
6	29	0	0	0	0	0.00	0.00	0.00	0.00
6	30	0	0	0	0	0.00	0.00	0.00	0.00

Max during startup

1.67

Max after startup

0.42

Barton Malow Point 21

Page	Minute					6-minute averages			
1	1	0	0	0	0				
1	2	0	5	5	0				
1	3	0	0	5	0				
1	4	0	0	0	0				
1	5	0	5	0	0				
1	6	0	0	0	0				0.83
1	7	0	0	0	0	0.83	0.83	0.83	0.83
1	8	0	0	0	0	0.83	0.63	0.42	0.42
1	9	0	0	0	0	0.42	0.42	0.21	0.21
1	10	0	0	0	0	0.21	0.21	0.21	0.21
1	11	0	0	0	0	0.21	0.00	0.00	0.00
1	12	0	0	0	0	0.00	0.00	0.00	0.00
1	13	0	0	0	0	0.00	0.00	0.00	0.00
1	14	0	5	0	0	0.00	0.21	0.21	0.21
1	15	0	0	0	0	0.21	0.21	0.21	0.21
1	16	0	0	0	0	0.21	0.21	0.21	0.21
1	17	0	0	0	0	0.21	0.21	0.21	0.21
1	18	0	0	0	0	0.21	0.21	0.21	0.21
1	19	0	0	0	0	0.21	0.21	0.21	0.21
1	20	0	0	0	0	0.21	0.00	0.00	0.00
1	21	0	5	5	0	0.00	0.21	0.42	0.42
1	22	0	0	0	0	0.42	0.42	0.42	0.42
1	23	0	0	0	0	0.42	0.42	0.42	0.42
1	24	0	0	0	0	0.42	0.42	0.42	0.42
1	25	0	0	0	0	0.42	0.42	0.42	0.42
1	26	0	0	0	0	0.42	0.42	0.42	0.42
1	27	0	0	0	0	0.42	0.21	0.00	0.00
1	28	0	0	0	0	0.00	0.00	0.00	0.00
1	29	0	0	0	0	0.00	0.00	0.00	0.00
1	30	0	0	0	0	0.00	0.00	0.00	0.00
1st 30 min, start-up									
2	1	0	0	0	0	0.00	0.00	0.00	0.00
2	2	0	0	0	0	0.00	0.00	0.00	0.00
2	3	0	0	0	0	0.00	0.00	0.00	0.00
2	4	0	0	0	0	0.00	0.00	0.00	0.00
2	5	0	0	0	0	0.00	0.00	0.00	0.00
2	6	0	0	0	0	0.00	0.00	0.00	0.00
2	7	0	0	0	0	0.00	0.00	0.00	0.00
2	8	0	0	0	0	0.00	0.00	0.00	0.00
2	9	0	0	0	0	0.00	0.00	0.00	0.00
2	10	0	0	0	0	0.00	0.00	0.00	0.00
2	11	0	0	0	0	0.00	0.00	0.00	0.00
2	12	0	0	0	0	0.00	0.00	0.00	0.00
2	13	0	0	0	0	0.00	0.00	0.00	0.00
2	14	0	0	0	0	0.00	0.00	0.00	0.00
2	15	0	0	0	0	0.00	0.00	0.00	0.00
2	16	0	0	0	0	0.00	0.00	0.00	0.00
2	17	0	0	0	0	0.00	0.00	0.00	0.00
2	18	0	0	0	0	0.00	0.00	0.00	0.00
2	19	0	0	0	0	0.00	0.00	0.00	0.00
2	20	0	0	0	0	0.00	0.00	0.00	0.00
2	21	0	0	0	0	0.00	0.00	0.00	0.00
2	22	0	0	0	0	0.00	0.00	0.00	0.00
2	23	0	0	0	0	0.00	0.00	0.00	0.00

2	24	0	0	0	0	0.00	0.00	0.00	0.00
2	25	0	0	0	0	0.00	0.00	0.00	0.00
2	26	0	0	0	0	0.00	0.00	0.00	0.00
2	27	0	0	0	0	0.00	0.00	0.00	0.00
2	28	0	0	0	0	0.00	0.00	0.00	0.00
2	29	0	0	0	0	0.00	0.00	0.00	0.00
2	30	0	0	0	0	0.00	0.00	0.00	0.00
3	1	0	0	0	0	0.00	0.00	0.00	0.00
3	2	0	0	0	0	0.00	0.00	0.00	0.00
3	3	0	0	0	0	0.00	0.00	0.00	0.00
3	4	0	0	0	0	0.00	0.00	0.00	0.00
3	5	0	0	0	0	0.00	0.00	0.00	0.00
3	6	0	0	0	0	0.00	0.00	0.00	0.00
3	7	0	0	0	0	0.00	0.00	0.00	0.00
3	8	0	0	0	0	0.00	0.00	0.00	0.00
3	9	0	0	0	0	0.00	0.00	0.00	0.00
3	10	0	0	0	0	0.00	0.00	0.00	0.00
3	11	0	0	0	0	0.00	0.00	0.00	0.00
3	12	0	0	0	0	0.00	0.00	0.00	0.00
3	13	0	0	0	0	0.00	0.00	0.00	0.00
3	14	0	0	0	0	0.00	0.00	0.00	0.00
3	15	0	0	0	0	0.00	0.00	0.00	0.00
3	16	0	0	0	0	0.00	0.00	0.00	0.00
3	17	0	0	0	0	0.00	0.00	0.00	0.00
3	18	0	0	0	0	0.00	0.00	0.00	0.00
3	19	0	0	0	0	0.00	0.00	0.00	0.00
3	20	0	0	0	0	0.00	0.00	0.00	0.00
3	21	0	0	0	0	0.00	0.00	0.00	0.00
3	22	0	0	0	0	0.00	0.00	0.00	0.00
3	23	0	0	0	0	0.00	0.00	0.00	0.00
3	24	0	0	0	0	0.00	0.00	0.00	0.00
3	25	0	0	0	0	0.00	0.00	0.00	0.00
3	26	0	0	0	0	0.00	0.00	0.00	0.00
3	27	0	0	0	0	0.00	0.00	0.00	0.00
3	28	0	0	0	0	0.00	0.00	0.00	0.00
3	29	0	0	0	0	0.00	0.00	0.00	0.00
3	30	0	0	0	0	0.00	0.00	0.00	0.00
4	1	0	0	0	0	0.00	0.00	0.00	0.00
4	2	0	0	0	0	0.00	0.00	0.00	0.00
4	3	0	0	0	0	0.00	0.00	0.00	0.00
4	4	0	0	0	0	0.00	0.00	0.00	0.00
4	5	0	0	0	0	0.00	0.00	0.00	0.00
4	6	0	0	0	0	0.00	0.00	0.00	0.00
4	7	0	0	0	0	0.00	0.00	0.00	0.00
4	8	0	0	0	0	0.00	0.00	0.00	0.00
4	9	0	0	0	0	0.00	0.00	0.00	0.00
4	10	0	0	0	0	0.00	0.00	0.00	0.00
4	11	0	0	0	0	0.00	0.00	0.00	0.00
4	12	0	0	0	0	0.00	0.00	0.00	0.00
4	13	0	0	0	0	0.00	0.00	0.00	0.00
4	14	0	0	0	0	0.00	0.00	0.00	0.00
4	15	0	0	0	0	0.00	0.00	0.00	0.00
4	16	0	0	0	0	0.00	0.00	0.00	0.00
4	17	0	0	0	0	0.00	0.00	0.00	0.00
4	18	0	0	0	0	0.00	0.00	0.00	0.00
4	19	0	0	0	0	0.00	0.00	0.00	0.00
4	20	0	0	0	0	0.00	0.00	0.00	0.00

4	21	0	0	0	0	0.00	0.00	0.00	0.00
4	22	0	0	0	0	0.00	0.00	0.00	0.00
4	23	0	0	0	0	0.00	0.00	0.00	0.00
4	24	0	0	0	0	0.00	0.00	0.00	0.00
4	25	0	0	0	0	0.00	0.00	0.00	0.00
4	26	0	0	0	0	0.00	0.00	0.00	0.00
4	27	0	0	0	0	0.00	0.00	0.00	0.00
4	28	0	0	0	0	0.00	0.00	0.00	0.00
4	29	0	0	0	0	0.00	0.00	0.00	0.00
4	30	0	0	0	0	0.00	0.00	0.00	0.00
5	1	0	0	0	0	0.00	0.00	0.00	0.00
5	2	0	0	0	0	0.00	0.00	0.00	0.00
5	3	0	0	0	0	0.00	0.00	0.00	0.00
5	4	0	0	0	0	0.00	0.00	0.00	0.00
5	5	0	0	0	0	0.00	0.00	0.00	0.00
5	6	0	0	0	0	0.00	0.00	0.00	0.00
5	7	0	0	0	0	0.00	0.00	0.00	0.00
5	8	0	0	0	0	0.00	0.00	0.00	0.00
5	9	0	0	0	0	0.00	0.00	0.00	0.00
5	10	0	0	0	0	0.00	0.00	0.00	0.00
5	11	0	0	0	0	0.00	0.00	0.00	0.00
5	12	0	0	0	0	0.00	0.00	0.00	0.00
5	13	0	0	0	0	0.00	0.00	0.00	0.00
5	14	0	0	0	0	0.00	0.00	0.00	0.00
5	15	0	0	0	0	0.00	0.00	0.00	0.00
5	16	0	0	0	0	0.00	0.00	0.00	0.00
5	17	0	0	0	0	0.00	0.00	0.00	0.00
5	18	0	0	0	0	0.00	0.00	0.00	0.00
5	19	0	0	0	0	0.00	0.00	0.00	0.00
5	20	0	0	0	0	0.00	0.00	0.00	0.00
5	21	0	0	0	0	0.00	0.00	0.00	0.00
5	22	0	0	0	0	0.00	0.00	0.00	0.00
5	23	0	0	0	0	0.00	0.00	0.00	0.00
5	24	0	0	0	0	0.00	0.00	0.00	0.00
5	25	0	0	0	0	0.00	0.00	0.00	0.00
5	26	0	0	0	0	0.00	0.00	0.00	0.00
5	27	0	0	0	0	0.00	0.00	0.00	0.00
5	28	0	0	0	0	0.00	0.00	0.00	0.00
5	29	0	0	0	0	0.00	0.00	0.00	0.00
5	30	0	0	0	0	0.00	0.00	0.00	0.00
6	1	0	0	0	0	0.00	0.00	0.00	0.00
6	2	0	0	0	0	0.00	0.00	0.00	0.00
6	3	0	0	0	0	0.00	0.00	0.00	0.00
6	4	0	0	0	0	0.00	0.00	0.00	0.00
6	5	0	0	0	0	0.00	0.00	0.00	0.00
6	6	0	0	0	0	0.00	0.00	0.00	0.00
6	7	0	0	0	0	0.00	0.00	0.00	0.00
6	8	0	0	0	0	0.00	0.00	0.00	0.00
6	9	0	0	0	0	0.00	0.00	0.00	0.00
6	10	0	0	0	0	0.00	0.00	0.00	0.00
6	11	0	0	0	0	0.00	0.00	0.00	0.00
6	12	0	0	0	0	0.00	0.00	0.00	0.00
6	13	0	0	0	0	0.00	0.00	0.00	0.00
6	14	0	0	0	0	0.00	0.00	0.00	0.00
6	15	0	0	0	0	0.00	0.00	0.00	0.00
6	16	0	0	0	0	0.00	0.00	0.00	0.00
6	17	0	0	0	0	0.00	0.00	0.00	0.00

6	18	0	0	0	0	0.00	0.00	0.00	0.00
6	19	0	0	0	0	0.00	0.00	0.00	0.00
6	20	0	0	0	0	0.00	0.00	0.00	0.00
6	21	0	0	0	0	0.00	0.00	0.00	0.00
6	22	0	0	0	0	0.00	0.00	0.00	0.00
6	23	0	0	0	0	0.00	0.00	0.00	0.00
6	24	0	0	0	0	0.00	0.00	0.00	0.00
6	25	0	0	0	0	0.00	0.00	0.00	0.00
6	26	0	0	0	0	0.00	0.00	0.00	0.00
6	27	0	0	0	0	0.00	0.00	0.00	0.00
6	28	0	0	0	0	0.00	0.00	0.00	0.00
6	29	0	0	0	0	0.00	0.00	0.00	0.00
6	30	0	0	0	0	0.00	0.00	0.00	0.00

Max during startup
0.83

Max after startup
0.00

Source 03, Points 1-4



Source 03, Point 5 (inside drop to conveyor)



Source 01, Points 6-7 (left to right)



Source 01, Points 8-9 (9 is far right behind equipment)



Source 01, Points 10-11



Source 01, Point 12



Source 01, Point 13 (at screen) and Point 14



Source 01, Point 15



Source 02, Point 16



Source 02, Point 17-19 (left to right)



Source 02, Point 20-22 (right to left)



Source 02, Point 23 (far left out of view of screen) and Point 24



SMOKE SCHOOL CERTIFICATION

This is to acknowledge that

JOHN SILER

successfully participated in visible emissions training on

NOV 22 2021

and is qualified to evaluate visible emissions for a
period of six (6) months from the date of certification.

BED
Instructor

**SINGLETON
SMOKE SCHOOL**