

081 600 QVI 19 08 0007 MAT Asphalt, LLC

May 31, 2019

Mr. Raymond Pilapil
Acting Permit Section Manager
Division of Air Pollution Control
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P. O. Box 19506
Springfield, Illinois 62794-9506

Dear Mr. Pilapil:

Re:

FESOP Application Revision

MAT Asphalt LLC 4450 South Morgan Chicago, Illinois (Facility)

ID #031600QKI, Application #19020007

ILEPAOTVERON OF RECORDS NAMES AND STATE OF ILLINOIS

JUN 03 2019

Environmental Protection Agency
BUREAU OF AIR

This letter is to correct an error in the Federally Enforceable State Operating Permit (FESOP) application for the Drum Mix Asphalt Plant, submitted to the Illinois Environmental Protection Agency (IEPA) on February 7, 2019. Please accept this as an update to FESOP Application #19020007.

Exhibit 391-1.3 incorrectly used an average moisture content of 3.0% the correct value is 1.5%. Attached is the revised Exhibit 391-1.3 and revised Table 1.

If you have any questions concerning this FESOP revision, please contact Charlie Gjersvik, with GHD, at 217-717-9007.

Yours truly,

MAT ASPHALT LLC

/ ---

Revised Exhibit 391-1.3 and Revised Table 1

Exhibit 391-1.3 (Revised 05-31-2019)

Storage Pile Loading Fugitive Emission Calculations Drum Mix Asphalt Plant FESOP Application MAT Asphalt, LLC

Throughput			ssion	Emissions			
Description	0.	Factors ^[1]		Factors'		Uncontrolled	Controlled ^[2]
	(ton/yr)	(lb/ton)		(ton/yr)			
Loading Material	_	PM	2.15E-02	9.56	1.91		
Onto	890,000	PM ₁₀	1.02E-02	4.52	0.90		
Storage Piles		PM _{2.5}	1.54E-03	0.68	0.14		

^[1]Emission factors are calculated using the drop equation from AP-42 Section 13.2.4-4, using the parameters below. $E(lb/ton) = 0.0032*k*(U/5)^1.3/(M/2)^1.4$

Where:

k = Dimensionless Multiplier Based on Particle Size

U = Mean Wind Speed (mph)

M = Average Moisture Content (%)

	Multiplier	Wind	Moisture	Emission	
Pollutant	le	U	M	Factors "E"	
	K	(mph)	(%)	(lb/ton)	
PM	0.74			0.0215	
PM ₁₀	0.35	20	1.5	0.0102	
PM _{2.5}	0.053			0.0015	

^[2]Control through wetting of 80%.

Table 1 (Revised 05-31-2019)

Summary of Emissions Drum Mix Asphalt Plant FESOP Application MAT Asphalt, LLC

Emission			Theory	ah awa				Annual	Emission		
Source	Emission Source		inrou	ghput		NOx	со	PM	PM ₁₀	SO ₂	VOM
Type		Material	(unit/mo)	(unit/yr)	(unit)			(tor	n/yr)		
	Crush Plant	Aggregate & RAP	55,000	425,000	tons			5.87	2.05		
ĺ	Drum	Aggregate	148,333	890,000	tons	24.48	57.85	14.69	10.24	25.81	14.24
	Truck Loadout	Asphalt Product	148,333	890,000	tons	-	0.60	0.23	0.23		1.85
Non- Fugitive	Silo Filling	Asphalt Product	148,333	890,000	tons		0.53	0.26	0.26		5.43
	AC Storage Tanks	Asphalt Cement	-	10,000,000	gallons						0.10
	Other Tanks	Diesel / Gasoline	-	200,000 / 50,000	gallons						2.90
			N	on-Fugitive Em	ission Totals:	24.48	58.98	21.04	12.78	25.81	24.52
	Paved Roadways		-					63.38	12.68	-	
Fugitive	Unpaved Roadway					i		6.49	1.65	1	**
	Storage Piles							1.91	0.90		
		Non-Fugitive Emission Totals:					71.78	15.23			
	· · · · · · · · · · · · · · · · · · ·			F	acility Totals:	24.48	58.98	92.82	28.01	25.81	24.52

Illinois EPA FOIA Exemption Reference Sheet



Agency ID: 170002238816

Media File Type: AIR

Bureau ID: 031600QKI

Site Name: MAT Asphalt LLC

Site Address1: 2055 W Pershing Ave

Site Address2:

Site City: Chicago

State: IL

Zip: 60609-

This record has been determined to be partially or wholly exempt from public disclosure

Exemption Type:

Redaction

Exempt Doc #: 34

Document Date: 5 /17/2019

Staff: MJK

Document Description: EMAIL: MATTISON TO BERNOTEIT AND BARRIA WITH ATTACHMENT

Category ID: 03M

Category Description:

AIR PERMIT - CONSTRUCTION/JOINT

Exempt Type: Redaction

Permit ID: 19020007

Date of Determination:

6 /13/2019

Barria, German

From:

Mattison, Kevin

Sent:

Friday, May 17, 2019 12:04 PM

To:

Bernoteit, Bob

Cc:

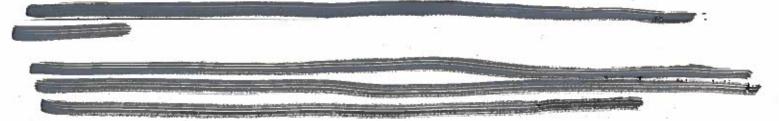
Barria, German

Subject:

031600QKI - MATS Asphalt: December 2018 Stack Test Review

Bob,

As requested, here is the review of the December 2018 stack test at MAT Asphalt.



Kevin Mattison

Office 28 847-294-4019



IEPA-DIVISION OF RECORDS MANAGEMENT

JUN 1 3 2019

REVIEWER: MJK

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REVIEW



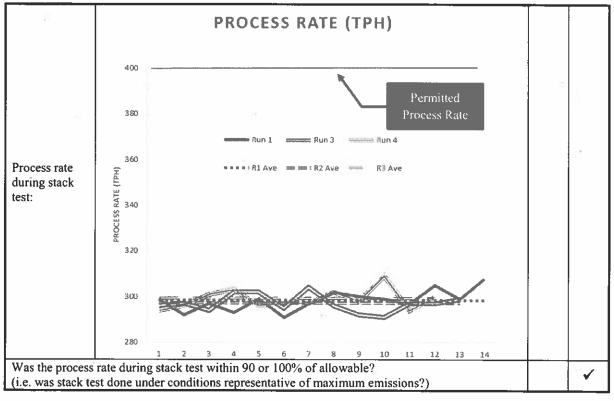
ID No.:	0316	600QKI				Test Date	: D	ecember 11, 201	9	
Source Name:	MA	T Asphalt, LLC		_				7.7		
Location	2055	55 West Pershing Avenue, Chicago, Illinois 60609								
Permit No.	1707	70024		TYP	E OF TE	ST PROG	RAM	l:		
□ FES	OP	☐ Title V		☑ Ir	itial Perfo	rmance		Annual/Periodi	С	
☐ Life	☐ Lifetime ☑ Construction ☐ CEMS Certification ☐ Other:					Other:				
Emission Unit(s)):	Hot Mix Asphalt Pla	ant							
Control Equipme	ent:	Baghouse								
APPLICABLE RULE:		☐ 35 IAC PART ☑ 40 CFR PART 60 ☐ 40 CFR PART 63	, SUBPA							
	!	Contact	Joseph	Haugh	ey					
SOURCE		Phone Number	773-61	7-0789				<u> </u>		
		Email	jhaughe	y@ma	tasphalt.e	<u>om</u>				
		Company Name	Montro	se Air	Quality So	ervices, L	LC			
TESTING		Contact	Steve F	laherty						
COMPANY		Phone Number	847-48	7-1580	Ext. 124	17				
COMPANI		Email	<u>sflahert</u>	y(a),mo	ntrose-en	v.com				
		Report No.	024AS-	47327	3-RT-238					
Parameters			U	SEPA	REFERE	NCE ME	тно	DS	Yes	No
☑ PM □ PM	МП	SO2 □ NOX ☑ Opad HCI □ DE □ CE Furans	city] 18] 25	□ 7_	☑ 9	□ 29	□ 24 □ 201_		
Alternative meth	nod(s)	NONE								
Did Permittee pr	ropose	or use proper metho	d(s)?						✓	
Process Inform	ation	<u>.</u>							Yes	No
	Con	struction Permit 1707	70024 Co	nditio	n 12:					
Process rate	12a.	Emissions from following limits:		ation o	of the asph	alt plant s	hall n	ot exceed the		
allowed in i. Asphalt Production Lim				mits:						
permit or unit capacity:		<u>(T</u>	ons/Hou	•		Production		te (Tons/Year)		
			400		148	,333		890,000		3II 8

MAT Asphalt, LLC ID No.: 031600QKI Application No.: 17070024

Test Date: December 11, 2018







COMPLIANCE DEMONSTI	RATION		Yes	No
	Submitted?	Date August 30, 2018	1	
Protocol	Submitted timely?	30 days prior to test	1	
	Approved?		1	
Did testing follow the app	roved protocol?		1	
Were raw field & laborate	ory sheets included with the final rep	ort?	1	
Were three test runs perfo	rmed?		1	
Were runs performed for a	appropriate length of time?		1	

	Pollutant	Emission	-	Limit
Emissions:	PM	0.0203 gr/dscf	0.04 gr/dscf	40 CFR Subpart I 60.92(a)(i)
	Opacity	0.7%	20%	40 CFR Subpart I 60.92(a)(ii)

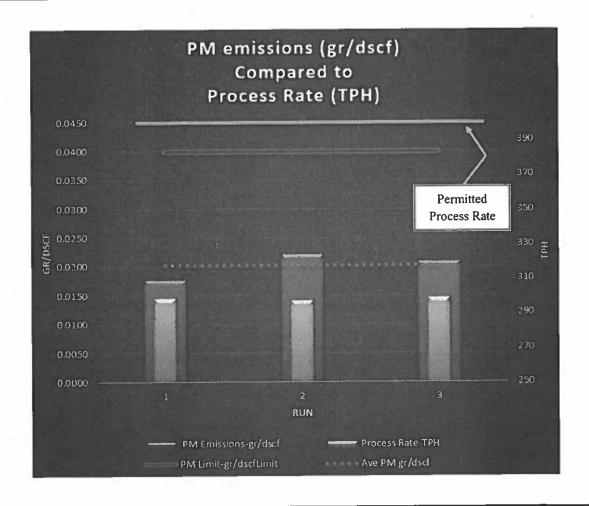
MAT Asphalt, LLC ID No.: 031600QKI

Application No.: 17070024 Test Date: December 11, 2018

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		Run 1	Run 2	Run 3	Average
	Asphalt Mix	N70 ST SC	N70 ST SC	N70 ST SC	••
	% Virgin Material	62.4%	63.6%	62.9%	63.0%
Process	%RAP	32.0%	30.9%	31.8%	31.6%
Data	% Asphalt Content	4.5%	4.5%	4.4%	4.4%
	% Mineral Fill	1.0%	1.0%	1.0%	1.0%
	% of Maximum Production Rate	74.6%	74.3%	74.7%	74.5%
	Asphalt Production Rate (T/hr)	298	297	299	298



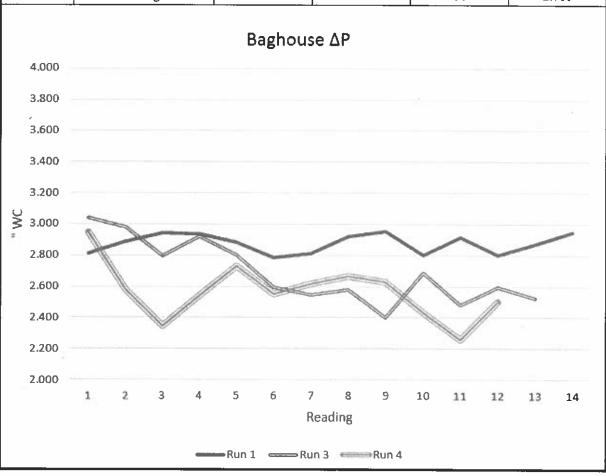
MAT Asphalt, LLC ID No.: 031600QKI

Application No.: 17070024 Test Date: December 11, 2018

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1000		Pharman areas		for the southern part	TO PROPERTY OF THE
Baghouse	Max	2.955	3.039	2.946	2.980
ΔΡ	Min	2.787	2.400	2.260	2.482
("WC)	Average	2.878	2.688	2.567	2.711



Are test results in compliance with applicable requirements, permit special conditions, and Agency

Yes

No
averaging policy/rule?

Comments:

MAT Asphalt, LLC contracted Montrose Air Quality Services, LLC, Wauconda, IL, to conduct particulate emissions testing and opacity measurements on the baghouse exhaust controlling emissions from the 400 T/hr drum mix asphalt plant. Montrose Air Quality Services, LLC utilized USEPA Methods 1, 2, 3, 4, 5, & 9.

Emissions testing was conducted late in the season to comply with the NSPS testing deadline; therefore, MAT Asphalt was unable to operate the plant at 90% of the maximum permitted production rate.

No deviation from the test methods were note while on-site witnessing the stack test or during the review of the test final report.

MAT Asphalt, LLC ID No.: 031600QKI

Application No.: 17070024 Test Date: December 11, 2018





While on-site, I witness the null point traverse to document the absence of cyclonic flow; however, this data sheet was missing from the final report. Montrose Air Quality Services, LLC was contacted and provided the missing sheet, which confirms the stack is absent of cyclonic flow and has been attached to this review.

It is recommended that the Illinois EPA accept the final stack test report, which indicates the particulate emissions and opacity from the drum-mix asphalt plant were in compliance while operating at 298 T/hr (74.5% of maximum permitted operating rate). Additionally, it is recommended that future permits limit asphalt production to no more 110% of 298 T/hr (328 TPH) at which the stack test was conducted at unitl such time a new stack test is performed at a higher production rate and documents compliance.

Please contact the undersigned if you have any questions.

11				Yes	No
Kevin J. M	allison	May 17, 2019	Test Report Approved	>	
	J. Mattison	Date	Compliance Demonstrated? (See comments above)	✓	

Attachment:

- 1. Cyclonic Flow Field Data Sheet
- 2. IEPA Calculations



VELOCITY TRAVERSE AND CYCLONIC FLOW VERIFICATION

PLANT ALAT Ashalt	
DATE 12-11-19	-
LOCATION Chicago Th	_
SOURCE BH Exh.	_
STACKID 60.5"	_
PROBE #/TC# 5262	- 0
BAROMETRIC PRESSURE, in. Hg	
OPERATORS S. FLAHERTY & R. BURTOW	SCHEMATIC OF TRAVERSE POINT
0 /	-
RUN NO. Frelim. STATIC. in. H.O 0:09	RUN NO.
STATIC, in, H ₂ O - 0, 04	STATIC, in. H ₂ O

TRAVERSE	VELOCITY	STACK	YAW
POINT	ΗΕΑΟ, ΔΡ	TEMP.	ANGLE
NUMBER	(in. H ₂ O)	(°F)	(°)
5E-1	0.61		- 2
2	0.63		- 3
3	0.64	255	3
<u> </u>	0.65		2
5	0.63		4
<u></u>	0.62		3
-7	0.57	257	/
<u> </u>	0.38	45	0
9	0.40		1
10	0.45	750	3
-//	0.45	758	3
12	0.48		+
6-1	. 63		- //
.50)-1	0.53	2 - 2	7
<u> </u>	0.57	257	3
	0.57		5
Ž	0.54		4/
	0.55		41
2	0.49	256	6 3
0	0.48		5
9	0.44		4
10	0.44		4
-//	0.45	258	3
,'2	0.42		6
ALIPRASP		F5t.	
AVERAGE		N257	

TRAVERSE	VELOCITY	STACK	YAW
POINT	HEAD, ΔP	TEMP.	ANGLE
NUMBER	(in. H ₂ O)	(°F)	(°)
	1		-
	 		<u> </u>
	1		
			-
	 		
	100		
	ļ	<u></u>	
	 		
AVERAGE			

Form FDF 4005.00

LAYOUT

Location: Chicago

Test Date: December 11, 2018 Source: Drum-Mix Asphalt Plant Identification Number: 031600QKI Application Number: 17070024



Particulate Matter

	Particulate Matter				
Date	12/11/2018	12/11/2018	12/11/2018		
Run#	Run 1	Run 3	Run 4		
VI (ml)	418.2	351.3	360.7		
Υ	0.995	1.013	1.013		
Vm (ft³)	38.76	35.195	36.362		
Tm (°F)	33.83333333	56.08333333	63.54166667		
PB ("Hg)	29.56	29.56	29.56		
ΔH ("WC)	1.520833333	1.129583333	1.228333333		
Ср	0.84	0.84	0.84		
Ts (°F)	246.375	266.5833333	271.0416667		
Static P ("H₂O)	-0.1	-0.09	-0.09		
Ps ("Hg)	29.55264706	29.55338235	29.55338235		
$\sqrt{\Delta P}$	0.705124159	0.642476593	0.671342506		
%CO₂	5.6	5.9	6.2		
%O ₂	10.1	10	9.9		
%CO	0	0	0		
Stack L (in)					
Stack W (in)					
Stack Dia (in)	60.5	60.5	60.5		
As (sq ft)	19.96356686	19.96356686	19.96356686		
PM Weight (g)	0.0469	0.0519	0.0502		
Cond PM (g)					
Blank (g)					
Nozzle Dia (in)	0.281	0.281	0.281		
An (sq ft)	0.000430665	0.000430665	0.000430665		
Min.	60	60	60		
Hour	1	1	1		

Vwc	=	VI*0.0470	7		

Run 1	Vwc =	19.68	SCF
Run 3	Vwc =	16.54	SCF
Run 4	Vwc =	16.98	SCF

VmStd = Y*Vm*(TsStd/Tm)*(Pb+DH/13.6)/PsStd

	•			
Run 1		VmStd =	40.89	SCF
Run 3		VmStd =	36.14	SCF
Run 4		VmStd =	36.81	SCF

Isokinetic = (VmStd*As)/(An*time: min*QsStd)

100111110111	(,
Run 1		=	108.2334	%
Run 3		1 =	105.0711	%
Run 4		1 =	103.0235	%
Average		=	105.4427	%

dscm = Vmstd * 0.028317

Run 1	1.157951302
Run 3	1.023323984
Run 4	1.042449188

Flow Calculations

Bwo = Vv	vc/(VmStd+V	wc)	1 - Bwo
Run 1	Bwo =	0.3250	0.6750
Run 3	Bwo =	0.3139	0.6861
Run 4	Bwo =	0.3156	0.6844
MD= 440	2001 + 22/01), + 36(CO)	± 20/NO)
	CO2) +.32(O2		+.20(192) lb/lb-mole
Run 1			lb/lb-mole
Run 3	MD =		lb/lb-mole
Run 4	MD =	29.39	ib/ib-mole
Ms = MD	(1-Bwo) + 18	(Bwo)	
Run 1	Ms =	25.63	lb/lb-mole
Run 3	Ms =	25.78	lb/lb-mole
Run 4	Ms =	25.79	lb/lb-mole
Vs = 85 (48*Cp*(Ts/Ps	*Ms)^.5*Dp	
Run 1	* *		ft/second
Run 3			ft/second
Run 4			ft/second
ran +	*3	71.21	1,000
Qs = As'	'Vs*60		
Run 1	Qs =	58568.0	ACFM
Run 3	Qs =	53959.1	ACFM
Run 4	Qs =	56544.3	ACFM
QsStd =	Qs*(Ps/PsSt	d)*(TsStd/Ts	s)*(1-Bwo)
Run 1	QsStd =	29189.6	DSCFM
Run 3	QsStd =	26572.3	DSCFM
Run 4		27606.9	DSCFM
Co = 000	t * 15.43)/Vm	St4	
Run 1		0.0177	grains/dscf
Run 3		0.0222	grains/dscf
Run 4	_	0.0210	grains/dscf
Average	_	0.02030	grains/dscf
Average	∪ s −	0.02030	grainsrasor
E = (Cs*	Qstd*60)/700		
Run 1	E =	4.42769	lbs/hour
Run 3		5.04719	lbs/hour
Run 4	E =	4.97890	lbs/hour
Average	E =	4.81793	lbs/hour
Cs @ 7	%O2 = Cs*(14	4/(21-02))	
_	$C_s@7\%0_2 =$		grains/dscf
	C_s @7% O_2 =		grains/dscf
	C_{S} @7% O_{2} =		grains/dscf
	$C_s@7\%O_2 =$		grains/dscf
Average	3@	0.020027	3,411,014001

Location: Chicago

Test Date: December 11, 2018 Source: Drum-Mix Asphalt Plant Identification Number: 031600QKI Application Number: 17070024



Condensible PM

Run 1 0 lbs/hr Run 3 0 lbs/hr Run 4 0 lbs/hr Average 0 lbs/hr

 RM 5 DGM Calibration

 Pre Test
 0.995

 Allowable %5
 0.94525
 1.04475

 Post Test
 0.972
 Pass

RM 5 DGM Calibration

Pre Test 1.013

Allowable %5 0.96235 1.06365

Post Test 0.995 Pass

Alt - 009	е	0.0319	T_{\perp}	29		
	$Y_{qa} = \overline{V}$	$l_{\mathfrak{g}}(P_{b}+\Delta \frac{I}{1})$		$\frac{2}{M_d}$ $(\sqrt{\Delta})$	H) avg	
	Run 1	Run 3	Run 4	Average		
Orignial Y	0.995	1.013	1.013	1.007		
∆H @	1.943	1.816	1.816	1,858333		
Yqa	0.990	0.991	1.008	0.996		
% Change =	-1%	-2%	0%	-1%		
Allowable Range %5	0.94525	to	1.045		Pass Fail	PASS

Location: Chicago



Run 1			
Point No.	ΔΡ	$\sqrt{\Delta P}$	Ts
1	0.55	0.74162	255
2	0.57	0.754983	256
3	0.53	0.728011	259
4	0.57	0.754983	257
5	0.52	0.72111	257
6	0.5	0.707107	257
7	0.56	0.748331	257
8	0.49	0.7	253
9	0.45	0.67082	251
10	0.46	0.678233	251
11	0.41	0.640312	250
12	0.42	0.648074	249
13	0.63	0.793725	255
14	0.64	0.8	259
15	0.61	0.781025	260
16	0.57	0.754983	261
17	0.53	0.728011	260
18	0.42	0.648074	258
19	0.41	0.640312	258
20	0.39	0.6245	25
21	0.4		257
22	0.42	0.648074	257
23	0.46	0.678233	256
24	0.49	0.010203	255
25	0.43	0.7	_255
26			
27			
28		_	
29	-		
30		 -	
31		-	
32			
33		 	
34	-	 	
35	-	 	
36			
37			
38	-	4.81	
39		 	-
40		_	-
41			
41		-	
		_	-
43			
	_		-
45	 	 	-
46	_	 	-
47		 	
48	Augrees	0.705124	246.375
	Average_	0.705124	240.373

Run 1	
Tn	1
30	
30	
30	
30	_
31	
31	
31	_
	-
32	
32	
33	
33	
33	
34	
34	
36	
36	
37	_
37	
37	
36	
37	
37	
37	
38	
	_
-	
-	
	_
-	-
Augenta	22 0222
Average	32.0333

Run 1		
Point No.	ΔH("WC)	$\sqrt{\Delta H}$
1	1.7	1.30384
2	1.7	1.30384
3	1.6	1.264911
4	1.7	1.30384
- 5	1.6	1.264911
6	1.5	1.224745
7	1.7	1.30384
8	1.5	1.224745
9	1.4	1.183216
10	1.4	1.183216
11	1.2	1.095445
· 12	1.3	1.140175
13	1.9	1.378405
14	2	1.414214
15	1.9	1.378405
16	1.7	1.30384
17	1.6	1.264911
18	1.3	1.140175
19		1.095445
20	1	1.095445
21	1.2	1.095445
22		1.140175
23		
24		1.183216
		1.224745
25		
26		
27		\vdash
28		
29		
30	_	
31		-
32		\vdash
33		
34		
35		-
36		
37		1
38		
39		-
40		22
4	 	
42	+	
43		_
44		ļ
45	-	<u> </u>
46	+	├ ──
4		
48		
Average	1.520833	1.229631

Location: Chicago



Run 1		VM
Start	787.588	38.76
Stop	826.348	30.70
Start	6.7	0
Stop		· ·
Start		0
Stop		0
Start		0
Stop		V
	Total	38.76

Run 1			VL
Impinger 1	Initial	100	220
impiligor i	End	320	220
Impinger 2	Initial	100	116
impiligor 2	End	216	110
Impinger 3	Initial	0	60
mipinger \$	End	60	0
Impinger 4	Initial		0
	End		
Impinger 5	Initial		0
impinger 5	End		U
Impinger 6	Initial		o
impinger o	End		U
Silica Gel	Initial	200	22.2
Onica Ger	End .	222.2	22.2
		Total	418.2

Location: Chicago



Run 3		-	
Point No.	ΔΡ	$\sqrt{\Delta P}$	Ts
1	0.46	0.678233	247
2	0.46	0.678233	251
3	0.51	0.714143	253
4	0.4	0.632456	253
5	0.38	0.616441	270
6	0.37	0.608276	271
7	0.41	0.640312	270
8	0.4	0.632456	268
9	0.38	0.616441	266
10	0.35	0.591608	266
11	0.32	0.565685	265
12	0.31	0.556776	264
13	0.56	0.748331	268
14	0.57	0.754983	270
15	0.58	0.761577	270
16	0.52	0.72111	272
17	0.48	0.69282	273
18	0.47	0.685565	270
19	0.35	0.591608	273
20	0.34	0.583095	271
21	0.34	0.583095	271
22	0.36	0.6	273
23	0.34	0.583095	272
24	0.34	0.583095	271
25			
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27			
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30		22501	
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46			
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48			
		0.642477	266.5833

Run 3	
Tn	n
48	
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	50.05555
Average	56.08333

Run 3		
Point No.	ΔH("WC)	$\sqrt{\Delta H}$
1	1,3	1.140175
2	1.2	1.095445
3	1,4	1.183216
4	1,1	1.048809
5	1	1
6	0.98	0.989949
7	1.1	1.048809
8	1.1	1.048809
9	1.1	1.048809
10	0.94	0.969536
11	0.86	0.927362
12	0.84	0.916515
13	1.5	1.224745
14	1.5	1.224745
15	1.6	1.264911
16	1.4	1,183216
17	1.3	1.140175
18	1.3	1.140175
19	0.94	0.969536
20	0.92	0.959166
21	0.92	0.959166
22	0.97	0.984886
23	0.92	0.959166
24	0.92	0.959166
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43	_	
44		
45		_
46		
47	_	
Average	1.129583	1.05777
Average	1,129083	1.00777

Location: Chicago



Run 3		VM	
Start	210.08	35.288	- 11
Stop	245.368	35.200	
Start		-0.093	
Stop	-0.093	-0,055	Leakl Check
Start		0	
Stop		U .	
Start	.00	0	
Stop		V	
	Total	35,195	

Run 3		-	VL
Impinger 1	Initial	100	230
implitiger i	End	330	230
Impinger 2	Initial	100	100
impiliger z	End	200	100
Impinger 3	Initial	0	12
inipinger 5	End	12	12
Impinger 4	Initial		0
	End		l "l
Impinger 5	Initial		0
impinger 5	End		ľ
Impinger 6	Initial		0
impinger o	End		ı v
Silica Gel	Initial	200	0.3
	End	209.3	9.3
		Total	351.3

Location: Chicago

Test Date: December 11, 2018 Source: Drum-Mix Asphalt Plant Identification Number: 031600QKI Application Number: 17070024



Run 4	·		
Point No.	ΔΡ	$\sqrt{\Delta P}$	Ts
1	0.62	0.787401	271
2	0.63	0.793725	272
3	0.58	0.761577	271
4	0.57	0.754983	271
5	0.52	0.72111	273
6	0.5	0.707107	272
7	0.38	0.616441	271
8	0.35	0.591608	271
9	0.36	0.6	272
10	0.37	0.608276	272
11	0.42	0.648074	271
12	0.4	0.632456	270
13	0.51	0.714143	269
14	0.54	0.734847	270
15	0.52	0.72111	269
16	0.53	0.728011	209
17	0.39	0.6245	271
18	0.39	0.6245	274
19	0.39	0.648074	
20	0.42	0.67082	274
21	0.45	0.6245	271
22	0.39	0.6245	270
	0.39	0.0243	269
23		0.574456	270
24	0.33	0.574456	269
25			
26			
	- 63		
28 29			
30	_		
31		_	
32	-	 	-
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	-	-	
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36	-		
37		 	
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42		-	
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44			_
45		-	
46			_
47	-	 	
48		0.674040	274 0447
	Average	0.671343	271.0417

Run 4	
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	63.54167

Run 4	<u> </u>	· · · · · · · · · · · · · · · · · · ·
	ALI/BA/C)	
Point No.		√Δ <i>H</i> 1.30384
1	1.7	
2	1.7	1.30384
3	1.6	1.264911
4	1.5	1.224745
5	1.4	1.183216
6	1.4	1.183216
7	1	1
8 9	0.95	0.974679
10	0.97	0.984886
11	1	1 040000
	1.1	1.048809
12	1.1	1.048809
13	1.4	1.183216
14	1.5	1.224745
15	1.4	1.183216
16	1.4	1.183216
17	1	1 0 4 0 0 0 0
18	1.1	1.048809
19	1.1	1.048809
20		1.095445
21	1	1 0 4 0 0 0 0
22		1.048809
23		0.984886
24		0.943398
25		
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34		
35	-	- 2
37	4	
38		
	_	
39	+	
41	+	-
42	_	
43	+	
44		-
45		-
46		
47	+	-
48		1 100700
Average	1.228333	1.102729

Location: Chicago



Run 4 VMStart 245,777 36.508 Stop 282.285 Start -0.146 Stop -0.146 Leak Check Start 0 Stop Start 0 Stop Total 36,362

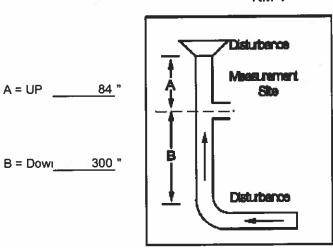
Run 4			VL
Impinger 1	Initial	100	234
mpinger i	End	334	204
Impinger 2	Initial	100	96
impinger z	End	196	90
Impinger 3	Initial	0	18
impinger a	End	18	2
Impinger 4	Initial		0
mipinger 4	End		
Impinger 5	Initial		0
inipinger 3	End		0
Impinger 6	Initial		0
ii ii pii igei o	End		
Silica Gel	Initial	200	12.7
Olica Gei	End	212.7	12.7
		Total	360.7

Company Name: Builders Asphalt

Location: Wheeling Test Date: July 23-24, 2018 Source: Drum-Mix Asphalt Plant Identification Number: 031497ADO Application Number: 17090026



RM 1



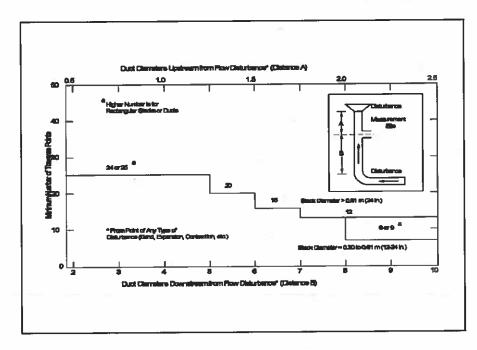
Eq Dia = 2(LxW)/(L+W)

L"		Square Stack
W."		Square Stack
Stack Dia	60.5	Circular Stack
As (sq ft)	19.96357	
Eo Dia		Square Stack

Flow Disturbance, Duct Dia.			
Actual Minimum			
up	1.38843	0.5	
down	4.958678	2.0	

Minimum Number of sampling points per Method 1 (fig. 1-1): 24

If min disturbance dist not met, verify location complies with section 11.5, alternative location



Company Name: Builders Asphalt

Location: Wheeling Test Date: July 23-24, 2018 Source: Drum-Mix Asphalt Plant Identification Number: 031497ADO Application Number: 17090026



Traverse		Angel		l
Point	α	Pitch (P)	Yaw (Y)	Ri
1	2	1 110/1 (1)	1011 (1)	1 (1
2	3			
3	3			
4	2			
5	4			
6	3			
7	1			
8	0			
9	1			
10	3			
11	5			
12	7			
13	4			
14	3			
15	1			
16	5			
17	4			
18	4			
19	3			-
20	5			
21				
	4			
22	4			
23	3			
24	6			
25				
26				
27				
28				
29				
30				
31				
32				
33				
34	-			
35				
36				-
37	-			
38				
39				
40				
41	Ü,			
42	98			
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
Average	3.33333		Ravg	#DIV/0!
Std Dev	1.6594		3	
219 004	1,0004			

USEPA Methond 1 Section 11.5 Sample minimum of:

40 ata siand

40 pts circular

42 pts rectangle

Ravg=Sum(Ri/n)

<20

Standard Deviation

<10

std Dev #DIV/0!

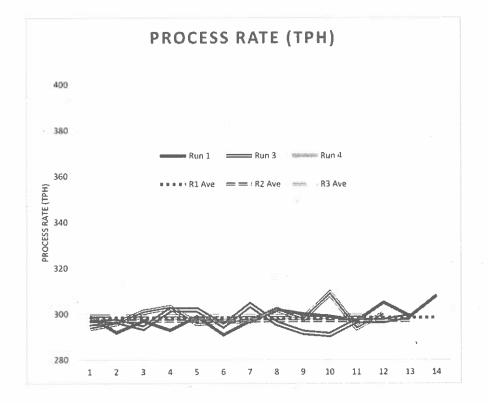
Company Name: Builders Asphalt, LLC

Location: Skokie

Test Date: May 19 23, 2017 Source: Hot Mix Asphalt Plant Identification Number: 031288AOY Application Number: 16010037

Process Data





Time	7:	57-9:15	12:28-13:40	14:10-15:1	16			
Reading	Rı	un 1	Run 3	Run 4	R1 Ave	R2 Ave	R3 /	Ave
	1	299	296	294	298	297		299
	2	292	297	296	298	297		299
	3	297	294	301	298	297		299
	4	293	302	303	298	297		299
	5	299	302	296	298	297		299
	6	291	295	297	298	297		299
	7	297	304	297	298	297		299
	8	302	296	302	298	297		299
	9	300	292	298	298	297		299
:	10	299	291	309	298	297		299
:	11	297	297	294	298	297	100	299
:	12	305	297	300	298	297		299
;	13	299	299		298	297		
	14	308			298			

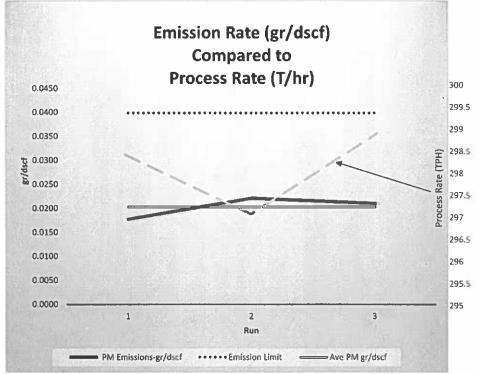
Process Data

Company Name: Builders Asphalt, LLC

Location: Skokie

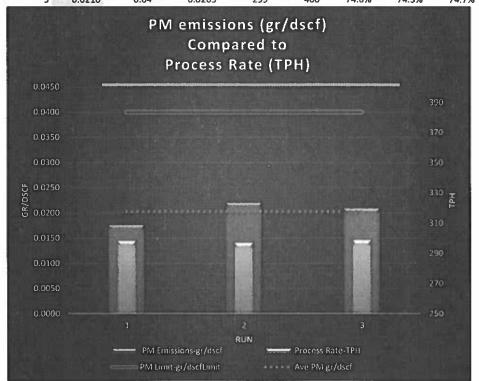
Test Date: May 19 23, 2017 Source: Hot Mix Asphalt Plant Identification Number: 031288AOY Application Number: 16010037





Emission Rate

Run		PM Emissio PM	1 Limit-gr Ave	PM gr/dsci THP	Ca	pacity TP	Production	Rate (TPH)	
	1	0.0177	0.04	0.0203	298	400	Run 1	Run 2	Run 3
	2	0.0221	0.04	0.0203	297	400	298.42857	297.07692	298.91667
	2	0.0210	0.04	0.0203	200	400	74 6%	7/1 394	74 794



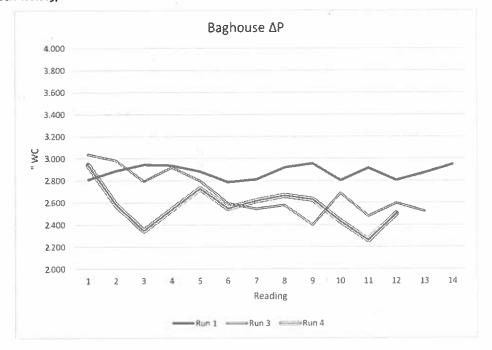
Company Name: Builders Asphalt, LLC

Location: Skokie

Test Date: May 19 23, 2017 Source: Hot Mix Asphalt Plant Identification Number: 031288AOY Application Number: 16010037

Process Data





Baghouse Differential Pressure

Time

Reading		Run 1	Run 3	Run 4	
	1	2,810	3.039	2.946	
	2	2.891	2.982	2.580	
	3	2.945	2.794	2.347	
	4	2,939	2.922	2.539	
	5	2.885	2.799	2.729	
	6	2.787	2.594	2.550	
	7	2,811	2.545	2.618	
	8	2.920	2.579	2.666	
	9	2.955	2.400	2.630	
	10	2.803	2.688	2.431	
	11	2.915	2.479	2.260	
	12	2.804	2.597	2.503	
	13	2.872	2.523		
	14	2.948			
					ave
max		2.955	3.03	9 2.946	2.980
min		2.787	2.40	0 2.260	2.482
ave		2.878	2.68	8 2.567	2.711

Process Data

Company Name: Builders Asphalt, LLC

Location: Skokie

Test Date: May 19 23, 2017 Source: Hot Mix Asphalt Plant Identification Number: 031288AOY Application Number: 16010037



% Virgin M	aterial				% RAP			
Time					Time			
Reading	Run 1	Run 3	Run 4		Reading Run 1	Run 3	Run 4	
:	1 6	51.7	62.5	63.3	1	32.9	30.3	31.3
:	2 6	53.2	64.4	63.4	2	31.5	30.3	31.3
3	3 6	52.6	64.4	63.5	3	32.0	30.3	31.2
4	4 6	53.6	63.6	63.0	4	31.2	31.1	31.5
ţ	5 6	52.2	63.7	61.8	5	32.4	30.9	32.9
(6 6	51.9	62.5	62.8	6	32.9	31.5	31.9
;	7 6	51.4	64.0	62.9	7	33.3	30.5	31.9
1	B 6	50.1	62.7	62.8	8	34.4	32.0	31.7
5	9 6	50.8	64.9	63.1	9	33.7	30,0	31.6
10	0 6	52.5	63.8	63.0	10	30.8	30.8	31.6
1	1 6	54.2	63.4	63.0	11	30.5	31.2	31.7
12	2 6	63.4	63.3	62.3	12	31.4	31.4	32.4
13	3 6	52.5	63.3		13	30.5	31.4	
1	4 6	53,5			14	31.0		
Average	6	62.4	63.6	62.9	Average	32.0	30.9	31.8

Time Reading Run 1 Run 3 Run 4 Reading Run 1 Run 3 Run 4 1 4.5 4.5 4.5 4.5 2 1 1 3 4.5 4.4 4.4 4.4 3 1 1 5 4.4 4.5 4.5 4.4 5 1 1 6 4.5 4.4 4.4 4.4 5 1 1 7 4.4 4.4 4.4 4.3 7 1 1 8 4.3 4.5 4.5 4.5 8 1 1 9 4.4 4.5 4.5 4.5 8 1 1 10 4.5 4.6 4.3 10 1 1 10 4.5 4.6 4.3 10 1 1 11 4.5 4.5 4.5 4.3 11 1 1 12 4.3 4.5 4.5 4.5 12 1 1 13 4.5 4.4 15 4.5 12 1 1 14 4.5 4.5 4.4 15 13 1 1 14 4.5 4.5 4.4 15 13 1 1 15 4.5 4.5 4.5 12 1 1 16 4.5 4.6 13 13 1 1 17 4.5 4.5 4.5 12 1 1 18 4.5 4.5 4.5 13 11 1	% Asphali	t Content ((+A/C)			% Mineral	Fill			
1 4.5 4.5 4.5 1 1 1 2 4.6 4.3 4.5 2 1 1 3 4.5 4.4 4.4 3 1 1 4 4.4 4.4 4 1 1 1 5 4.4 4.5 4.4 5 1 1 1 6 4.5 4.4 4.4 6 1 <td< th=""><th>Time</th><th></th><th></th><th></th><th></th><th>Time</th><th></th><th></th><th></th><th></th></td<>	Time					Time				
2 4.6 4.3 4.5 2 1 1 3 4.5 4.4 4.4 3 1 1 4 4.4 4.4 4 1 1 5 4.4 4.5 4.4 5 1 1 6 4.5 4.4 4.4 6 1 1 7 4.4 4.4 4.3 7 1 1 8 4.3 4.5 4.5 8 1 1 9 4.4 4.5 4.4 9 1 1 10 4.5 4.6 4.3 10 1 1 11 4.5 4.5 4.3 11 1 1 12 4.3 4.5 4.5 12 1 1 13 4.5 4.4 13 1 1 14 4.5 4.4 13 1 1	Reading	Run 1	Run 3	Run 4		Reading	Run 1	Run 3	Run 4	
3 4.5 4.4 4.4 3 1 1 4 4.4 4.4 4 1 1 5 4.4 4.5 4.4 5 1 1 6 4.5 4.4 4.4 6 1 1 7 4.4 4.4 4.3 7 1 1 8 4.3 4.5 4.5 8 1 1 9 4.4 4.5 4.4 9 1 1 10 4.5 4.6 4.3 10 1 1 11 4.5 4.5 4.3 11 1 1 12 4.3 4.5 4.5 12 1 1 13 4.5 4.4 13 1 1 14 4.5 4.4 13 1 1		1	4.5	4.5	4.5		1	1	1	1
4 4.4 4.4 4 1 1 5 4.4 4.5 4.4 5 1 1 6 4.5 4.4 4.4 6 1 1 7 4.4 4.4 4.3 7 1 1 8 4.3 4.5 4.5 8 1 1 9 4.4 4.5 4.4 9 1 1 10 4.5 4.6 4.3 10 1 1 11 4.5 4.5 4.3 11 1 1 12 4.3 4.5 4.5 12 1 1 13 4.5 4.4 13 1 1 14 4.5 4.4 13 1 1		2	4.6	4.3	4.5		2	1	1	1
5 4.4 4.5 4.4 5 1 1 6 4.5 4.4 4.4 6 1 1 7 4.4 4.4 4.3 7 1 1 8 4.3 4.5 4.5 8 1 1 9 4.4 4.5 4.4 9 1 1 10 4.5 4.6 4.3 10 1 1 11 4.5 4.5 4.3 11 1 1 12 4.3 4.5 4.5 12 1 1 13 4.5 4.4 13 1 1 14 4.5 14 1		3	4.5	4.4	4.4		3	1	1	1
6 4.5 4.4 4.4 6 1 1 7 4.4 4.4 4.3 7 1 1 8 4.3 4.5 4.5 8 1 1 9 4.4 4.5 4.4 9 1 1 10 4.5 4.6 4.3 10 1 1 11 4.5 4.5 4.3 11 1 1 12 4.3 4.5 4.5 12 1 1 13 4.5 4.4 13 1 1 14 4.5 4.4 13 1 1		4	4.4	4.4	4.4		4	1	1	1
7 4.4 4.4 4.3 7 1 1 8 4.3 4.5 4.5 8 1 1 9 4.4 4.5 4.4 9 1 1 10 4.5 4.6 4.3 10 1 1 11 4.5 4.5 4.3 11 1 1 12 4.3 4.5 4.5 12 1 1 13 4.5 4.4 13 1 1 14 4.5 14 1		5	4.4	4.5	4.4		5	1	1	1
8 4.3 4.5 4.5 8 1 1 9 4.4 4.5 4.4 9 1 1 10 4.5 4.6 4.3 10 1 1 11 4.5 4.5 4.3 11 1 1 12 4.3 4.5 4.5 12 1 1 13 4.5 4.4 13 1 1 14 4.5 14 1		6	4.5	4.4	4.4		6	1	1	1
9 4.4 4.5 4.4 9 1 1 10 4.5 4.6 4.3 10 1 1 11 4.5 4.5 4.3 11 1 1 12 4.3 4.5 4.5 12 1 1 13 4.5 4.4 13 1 1 14 4.5 14 1		7	4.4	4.4	4.3		7	1	1	1
10 4.5 4.6 4.3 10 1 1 11 4.5 4.5 4.3 11 1 1 12 4.3 4.5 4.5 12 1 1 13 4.5 4.4 13 1 1 14 4.5 14 1		8	4.3	4.5	4.5		8	1	1	1
11 4.5 4.5 4.3 11 1 1 12 4.3 4.5 4.5 12 1 1 13 4.5 4.4 13 1 1 14 4.5 14 1		9	4.4	4.5	4.4		9	1	1	1
12 4.3 4.5 4.5 12 1 1 13 4.5 4.4 13 1 1 14 4.5 14 1	:	10	4.5	4.6	4.3	1	0	1	1	1
13 4.5 4.4 13 1 1 14 4.5 14 1	:	11	4.5	4.5	4.3	1	1	1	1	1
14 4.5 14 1	;	12	4.3	4.5	4.5	1	2	1	1	1
	:	13	4.5	4.4		1	3	1	1	
A. A	:	14	4.5			1	4	1		
Average 4.5 4.5 4.4 Average 1 1	Average		4.5	4.5	4.4	Average		1	1	1



MAT Asphalt, LLC

May 8, 2019

Mr. Raymond Pilapil
Permit Section Manager
Division of Air Pollution Control
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P. O. Box 19506
Springfield, Illinois 62794-9506

STATE: HOIS

Mar 1 0 7019

Environmenta Procession Agency
- BUREAU OF AIR

Dear Mr. Pilapil:

IEPA-DIVISION OF RECORDS MANAGEMENT

JUN 13 2019

REVIEWER: MJK

Re: Fugitive Particulate Matter Control Operating Program

MAT Asphalt LLC

2033 West Pershing Avenue Chicago, Illinois (Facility)

ID #031600QKI

The purpose of this transmittal is to submit an updated Fugitive Particulate Matter Control Operating Program to meet the requirements of 35 III. Adm. Code 212.309 for the MAT Asphalt LLC facility located at 2033 West Pershing Avenue, Chicago, Cook County, Illinois.

If you have any questions concerning this plan, please contact Charlie Gjersvik, with GHD, at 217-717-9007.

Yours truly,

ge Haughey

MAT ASPHALT ILC

Plant Manager

1.0 Overview

This document constitutes the Operating Program for Fugitive Particulate Matter Control for the MAT Asphalt, LLC facility located at 2033 West Pershing Avenue, Chicago, Illinois. This document is designed such that it complies with the regulatory requirements of 35 IAC 212.309, 35 IAC 212.310, and 35 IAC 212.312. Pursuant to 35 IAC 212.309(a), fugitive emissions from storage piles, conveyor loading operations, traffic areas, screening operations, materials collected by pollution control equipment, and any units for which spraying or choke-feeding is required must be operated under the provisions of an operating program.

This Operating Program is designed to minimize the opportunity for fugitive PM emissions at the Facility to leave the property. This Operating Program has been prepared to reflect the fugitive PM emission sources currently in operation as of September 2018 and will be revised as appropriate to reflect any future changes in operations.

2.0 General Source Information

2.1: 35 IAC 212.310(a) - Name and Address of the Source

MAT Asphalt, LLC 2033 West Pershing Avenue Chicago, Illinois 60609

2.2: 35 IAC 212.310(b) - Owner or Operator Responsible for Execution of the Operating Program Joe Haughey

The Plant Manager/Joe Haughey (or their designee) is responsible for inspection and maintenance tasks for the Facility, and for ensuring that all procedures outlined in this Operating Program are enacted.

2.3: 35 IAC 212.310(c) - Map or Diagram of the Source

A map of the Facility showing approximate locations of storage piles, conveyor loading operations, normal traffic pattern access areas surrounding storage piles and normal traffic patterns within the source is provided in Appendix A to this Operating Program.

2.4: Source Description

MAT Asphalt, LLC conducts asphalt production, material processing, material storage and material and product transport operations at the Facility. Various materials including, but not limited to, asphalt, aggregate, asphalt shingles, and recycled asphalt pavement are loaded and unloaded via truck at the Facility.

3.0 BEST MANAGEMENT PRACTICES FOR FUGITIVE DUSTCONTROL

3.1: Property Lines

Monitoring: USEPA Method 22 observations will be conducted on each Property Line of the plant at least once per day.

3.2: Storage Piles

Primary Method of Fugitive Dust Control: Sprayed by Water Truck at least once per day.

Secondary Method of Fugitive Dust Control: If water truck is unavailable due to repairs, water will be applied via hoses at least once per day.

Requirements: Maintain 1.5% moisture content in materials handled and processed.

Monitoring: USEPA Method 22 observations will be conducted on each storage piles at least once per day. Moisture Content is measured at least once per day.

The Facility has outdoor storage piles of various materials. Water truck will apply water during loading into and unloading

out of the outdoor storage piles to minimize wind erosion. Additional water application will be utilized based on visual observations as determined by site personnel and documented in the Method 22 Material Monitoring Record. These measures will not be utilized during periods when no visual emissions are observed utilizing USEPA Method 22, storage piles maintain or exceed 1.5% moisture content as measured daily by MAT personnel via Humboldt brand Aggrameter https://www.humboldtmfg.com/trident-moisture-probe.html or if accumulated rainfall of at least 0.25" in the past 24 hours, storage piles are frozen or covered in snow, or temperatures are below 32C.

3.3: Crushing, Screening, and Conveying of materials

Primary Method of Fugitive Dust Control: Sprayed by Water Truck at least once per day.

Secondary Method of Fugitive Dust Control: If water truck is unavailable due to repairs, water will be applied via hoses at least once per day.

Requirements: Maintain 1.5% moisture content in materials handled and processed.

Monitoring: USEPA Method 22 observations will be conducted on each process at least once per day.

The Facility has outdoor crushing, screening, and conveying various materials. Water truck will apply water during loading into and unloading out of the outdoor storage piles to minimize wind erosion. Additional water application will be utilized based on measured moisture content and USEPA Method 22 observations as determined by site personnel and documented within the records.

3.4: Front-end Loader Material Movements

Fugitive Dust Control: Material is wet

Requirements: Maintain 1.5% moisture content in materials handled and processed. Monitoring Requirement: USEPA Method 22 during material transfers at least once per day.

When using a front end loader or similar equipment to either load or unload materials, water spray is used, to control fugitive dust based on visual observations determined by site personnel and documented in the Method 22 Material Monitoring Record..

3.5: Roadways

Primary Method of Fugitive Dust Control: Sweeper is used on paved roadways at least once per week. Water truck will apply water on unpaved roadways at least once per day.

Secondary Method of Fugitive Dust Control: If Sweeper is unavailable due to repairs, water will be applied via water truck at least once per week.

Applicable Regulations: 35 IAC 212.306

Monitoring: Method 22 observations will be performed on each leg of roadways within the plant, entrance to the plant, and exit of the plant:

The Facility currently has both paved and unpaved roadways. By October 1, 2018, all roadways will be paved. All Roadways have been paved with Hot Mix Asphalt To minimize emissions from vehicle traffic, all unpaved surfaces are watered daily. Paved roads are swept on a weekly basis unless there is sufficient precipitation. Control activities are documented in the Water and Stabilizer Records table in Appendix B. Further, an on-site speed limit of 10 MPH is posted and enforced on all plant roads.

In addition, a chemical dust suppressant will be applied to all unpaved roadways at least twice per year, in the late Spring and Fall, and shall make a third application in the Summer, if necessary. Chemical Dust Suppressant Applications shall be recorded in the Water and Stabilizer Records Table in Appendix B.

4.0: Recordkeeping and Reporting

4.1: Recordkeeping:

Records shall be maintained on site in written or electronic form. The MAT Plant is equipped with electronic daily reports containing the all required data input as dictated below "Records of Method 22 Observation Logs"

- 4.1.1: Records of Method 22 Observation Logs shall contain the following information:
 - Observer's Name
 - Weather conditions
 - Wind speed and direction
 - Time of observation
 - Area or operation observed
 - A determination if dust was observed
 - Corrective Actions taken if visible emissions were observed

4.1.2: Sweeping and Watering Logs:

- Driver's Name
- Weather conditions
- Wind speed and direction
- Time of treatment
- Area or operation treated
- Type of treatment conducted

4.1.3: Retention of Records

These records will be maintained in accordance with Permits issued by the Illinois EPA These records will be available for inspection and copying by Agency representatives during normal working hours.

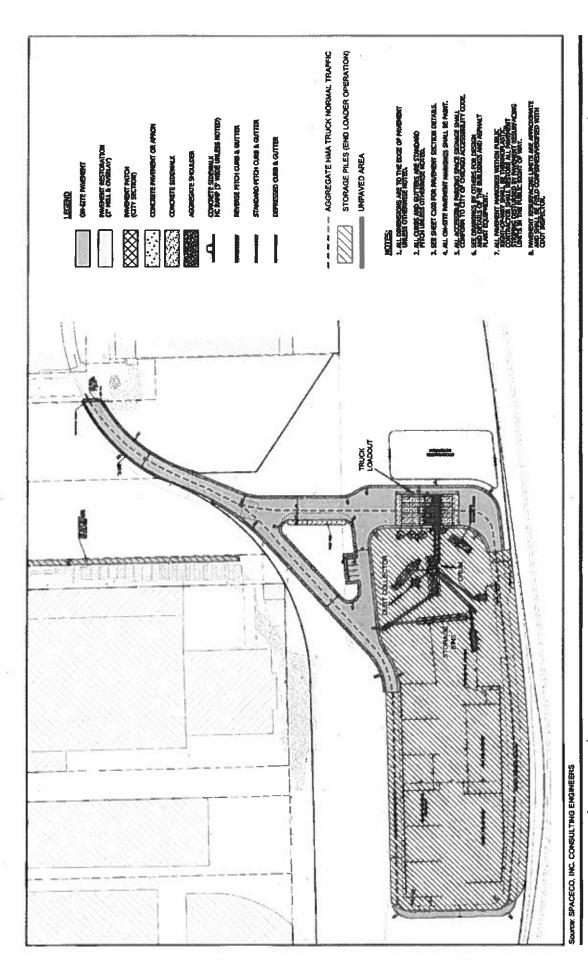
4.2: REPORTING

MAT Asphalt will notify the Illinois EPA of any deviations from this plan in accordance with permits issued by the Illinois EPA.

5.0: Amendments or Revisions to this Operating Program

In accordance with 35 IAC 212.312, all portions of this operating program related to the state fugitive dust rules contained in 35 IAC 212 will be updated as necessary to reflect changes in operations or procedures at the Facility. If this plan is revised, MAT Asphalt will submit a copy of the revised plan to the Illinois EPA.

APPENDIX A: SITE DIAGRAM



11140803-01 Aug 29, 2018

Appendix A

MAT ASPHALT CORPORATION
2055 W PERSHING ROAD
CHICAGO, ILLINOIS
HOT MIX ASPHALT PLANT CC

HOT MIX ASPHALT PLANT CONSTRUCTION SITE PLAN

APPENDIX B: RECORDKEEPING

Appendix B

IEPA - FUGITIVE DUST CONTROL LOG

DATE	WEATHER	FUGITIVE DUST CONDITION	CORRECTIVE ACTION	TIME
				+
				-
				-
	24.00 to 1			
			-	
				+
_				1
				_
				-
				1
+				-
				+