



facility

128 NATCHEZ TRACE ROAD
09-0004 CAMDEN, TN 38320
731-584-6991

24 OAK STREET
McKENZIE, TN 38201
731-352-3850
APC ROAD

26 JAN 2024 AM 10:18

January 16, 2024

Department of Environment and Conservation
Division of Air Pollution Control
William R Snodgrass Tennessee Tower
312 Rosa L Parks Ave, 15th Floor
Nashville, TN 37243

To whom it may concern,

Mid-Way Concrete Products Inc purchased Mid-Way Materials in September of 2020. Mid-Way Concrete Products Inc is submitting a new application to increase annual yardage for both concrete plants to 60,000 cubic yards/year.

The forms APC 100 and APC 111 have been completed, and are included, for both locations: Camden and McKenzie. The spreadsheet with necessary calculations is also included.

Please contact us should you require any additional information.

With regards,

A handwritten signature in black ink, appearing to read "Jacob Percy", written over a white background.

Jacob Percy
Owner/Operator



DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF AIR POLLUTION CONTROL
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor, Nashville, TN 37243
Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

APC 100

**NON-TITLE V PERMIT APPLICATION
FACILITY IDENTIFICATION**

Type or print and submit. Attach appropriate source description forms.			
SITE INFORMATION			
1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)] Mid-Way Concrete Products Inc (SOS #002064770)			
2. Site name (if different from legal name) N/A			
3. Is a construction permit application fee being submitted? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (see instructions for appropriate fee to submit)			
4. Site address (St./Rd./Hwy.) 24 Oak St			County name Carroll
City McKenzie		Zip code 38201	5. NAICS or SIC code 3273
6. Site location (in lat. /long.)	Latitude 36.126389	Longitude 88.513889	
CONTACT INFORMATION (RESPONSIBLE PERSON)			
7. Responsible person/Authorized contact Jacob Percy			Phone number with area code 731-584-6991
Mailing address (St./Rd./Hwy.) 128 Natchez Trace Rd			Fax number with area code 731-584-2523
City Camden	State TN	Zip code 38320	Email address jake@midwaycp.com
CONTACT INFORMATION (TECHNICAL)			
8. Principal technical contact Jacob Percy			Phone number with area code 731-584-6991
Mailing address (St./Rd./Hwy.) 24 South Oak St			Fax number with area code 731-584-2523
City McKenzie	State TN	Zip code 38201	Email address jake@midwaycp.com
CONTACT INFORMATION (BILLING)			
9. Billing contact Mid-Way Concrete Products, Inc			Phone number with area code 731-584-6991
Mailing address (St./Rd./Hwy.) 128 Natchez Trace Rd			Fax number with area code 731-584-2523
City Camden	State TN	Zip code 38320	Email address jake@midwaycp.com

AIR CONTAMINANT SOURCE(S) INFORMATION

10. Description of air contaminant source(s) and Unique Source ID(s). List, identify, and briefly describe process emission sources, fuel burning installations, and incinerators that are contained in this application and include a Unique Source ID for each source. The Unique Source ID is a name/number/letter, which uniquely identifies the air contaminant source(s), like Boiler #1, Paint Line #1, Engine #1, etc. (see instructions for more details)

Concrete batch plant

11. Is the air contaminant source(s) in a nonattainment area? If "Yes", then minor source BACT must be addressed. Yes No

12. Normal operation:	Hours/Day 10 hrs/day	Days/Week 5 days/week	Weeks/Year 52 weeks/year	Days/Year 260 days/year
13. Percent annual throughput	Dec. - Feb. 20%	March - May 30%	June - August 30%	Sept. - Nov. 20%

TYPE OF PERMIT REQUESTED (check appropriate box)

14. Operating permit <input checked="" type="checkbox"/>	Date construction started	Date completed	Date of ownership change (if applicable) 9/11/2020	
	Last permit number(s) 03-0039		Emission Source Reference Number(s)	
Construction permit <input type="checkbox"/>	Last permit number(s)		Emission Source Reference Number(s)	

If you chose Construction permit above, then choose either New Construction, Modification, or Location Transfer

<input type="checkbox"/> New Construction	Starting date	Completion date
<input type="checkbox"/> Modification	Date modification started or will start	Date completed or will complete
<input type="checkbox"/> Location Transfer	Transfer date	Address of last location

15. Describe changes that have been made to this equipment or operation(s) since the last construction or operating permit application:

Cement bag houses/particulate filtration systems with new hardware as well as a new blower system

16. Comments

SIGNATURE

Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

17. Signature (application must be signed before it will be processed)

Date

Jacob Pearcy

1/3/2024

Signer's name (type or print)

Title

Phone number with area code

Jacob Pearcy

Owner

731-584-6991



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APC 111

**NON-TITLE V PERMIT APPLICATION
 CONCRETE BATCH PLANT SOURCE DESCRIPTION**

Type or print. Submit for each concrete batch plant. Submit with the APC 100.
 Submit a Plant Diagram according to the instructions given below.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)] Mid-Way Concrete Products, Inc [SOS# 002064770]	2. Emission Source Reference Number 09-0004
3. Is this air contaminant source subject to an NSPS or NESHAP rule? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, list rule citation, including Part, Subpart, and applicable Sections:	

4. Unique Source ID (name/number that uniquely identifies this source, like Plant 1) Cement Silo	5. Date constructed 1988
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6. Maximum annual production: (Yards)	Transit mix 60,000	Central mix	Dry mix
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CEMENT RECEIVING AND STORAGE

7. Cement receiving equipment	Is conveyor enclosed? Yes <input type="checkbox"/> No <input type="checkbox"/>	Is elevator enclosed? Yes <input type="checkbox"/> No <input type="checkbox"/>	Compressed air flow (Ft. ³ /Min.) 28 cfm	Average load size (Tons) 24 tons	Normal loading time (Min.) 60 Min
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8. Cement storage silos:	Number of silos 1	Total capacity (Units: barrels or tons) 200 Tons	<u>Silo vent controls</u> Discharges to (check one) Fabric filter <input checked="" type="checkbox"/> Another silo <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/>		
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WEIGH-BATCHER INFORMATION

9. Weigh batcher:	Capacity (Yards) 10	Batching rate (Yards/Hour) 60	Batch dumping rate (Yards/Minute) 1
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Silo - to - weigh - batcher vent controls	Hood <input type="checkbox"/>	Fabric filter <input type="checkbox"/>	Discharges to silo <input type="checkbox"/>	None <input checked="" type="checkbox"/>
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10. Weigh - batcher: (Check or complete as appropriate)	Discharges to: (In yards/year)			
	Trucks 60,000	Tilt	Products mixer	
	Weigh-batcher discharge chute controls:			
	Adjustable gathering hopper <input checked="" type="checkbox"/>	Hood <input type="checkbox"/>	Fabric filter <input type="checkbox"/>	Discharges to silo <input type="checkbox"/>

11. Air contaminants. Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet. (see instructions for more details)			
SILO #1 EMISSION INFORMATION			
12. Emission point data for:	Silo vent	Silo-to-weigh-batcher vent	Weigh-batcher discharge chute
A. Height above grade (Ft.)	80'	20'	14'
B. Diameter (Ft.)	2'	1'	2'
C. Emission exit direction (Up, down, or horizontal)	Down	Down	Down
D. Air flow rate (Ft. ³ /Minute)	7 cfm	7 cfm	7 cfm
13. Particulate matter (PM)	Silo vent	Silo-to-weigh-batcher vent	Weigh-batcher discharge chute
A. Average emissions (Pounds/Hour)	0.006	0.173	0.168
B. Maximum emissions (Pounds/hour)	0.015	0.432	0.420
C. Average emissions (Tons/Year)	0.007	0.216	0.210
D. Potential emissions (Tons/Year)	0.065	1.892	1.840
E. Emissions estimation method*	3	3	3
F. Control devices*	018	005	005
G. Control efficiency %	95.5%	95%	95%
SILO #2 EMISSION INFORMATION			
14. Emission point data for:	Silo vent	Silo-to-weigh-batcher vent	Weigh-batcher discharge chute
A. Height above grade (Ft.)			
B. Diameter (Ft.)			
C. Emission exit direction (Up, down, or horizontal)			
D. Air flow rate (Ft. ³ /Minute)			
15. Particulate matter (PM)	Silo vent	Silo-to-weigh-batcher vent	Weigh-batcher discharge chute
A. Average emissions (Pounds/Hour)			
B. Maximum emissions (Pounds/hour)			
C. Average emissions (Tons/Year)			
D. Potential emissions (Tons/Year)			
E. Emissions estimation method*			
F. Control devices*			
G. Control efficiency %			

16. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.).

ROAD DUST AND STOCKPILE INFORMATION

17. Road dust control:	None	Paved	Oiled	Watered frequently	
Plant yard:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Access roads:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
18. Stockpiles:	Estimated annual tonnage	Number of sides enclosed	Turnover rate (Tons/Month)	Received damp	Wetted as received
Gravel:	8000	3	6000	x	
Sand:	7800	3	5850	x	

19. Comments

New application to increase from 16,000 cubic yards/year to 60,000 cubic yards/year. Average based on normal loading speed of 24 tons/hour into truck. Maximum/PTE based on batching rate capacity of 60 tons/hour. Calculations using NC DNER Concrete Materials Calculations included with rate of 60 tons/hour retained. Maximum/PTE values from Potential Emissions after controls for Cement Silo, Weigh Hopper, and Truck Mix PM entries. Calculations the same for both Camden (03-0039) and McKenzie (09-0004) locations as both average loading speed and batching rate are the same.

SIGNATURE

If this form is being submitted at the same time as an APC 100 form, then a signature is not required on this form. Date this form regardless of whether a signature is provided. If this form is NOT being submitted at the same time as an APC 100 form, then a signature is required.

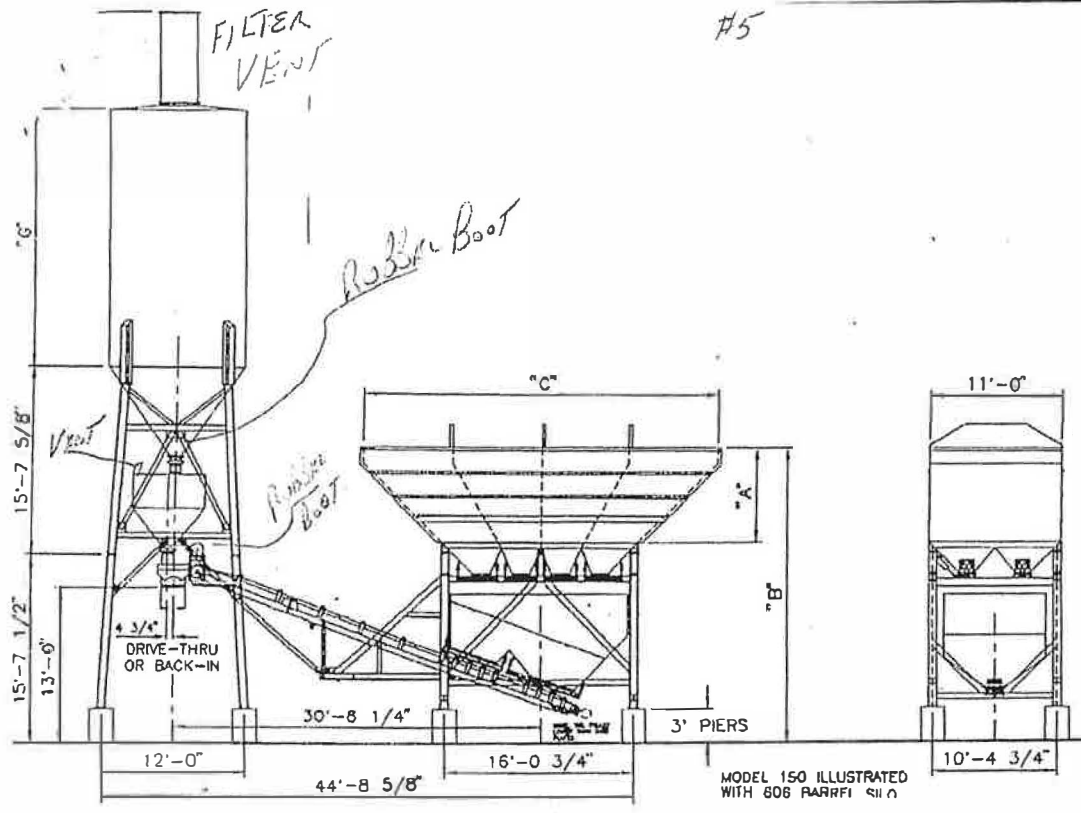
Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

20. Signature 		Date 1/19/24
Signer's name (type or print) Jacob Percy	Title Owner	Phone number with area code 731-584-6991

Concrete batch plant diagram instructions: Show general plant layout and air pollution control devices. Indicate the following: storage pile areas, conveyor systems, method of receiving cement, elevators, silos, silo vents, silo-to-weigh-batcher vent, weigh-batcher discharge chute, and product receiving equipment such as trucks and tilt or product mixers. Indicate air pollution control devices such as fabric filters, wet suppressions, hoods, canvas coverings, enclosures, etc.

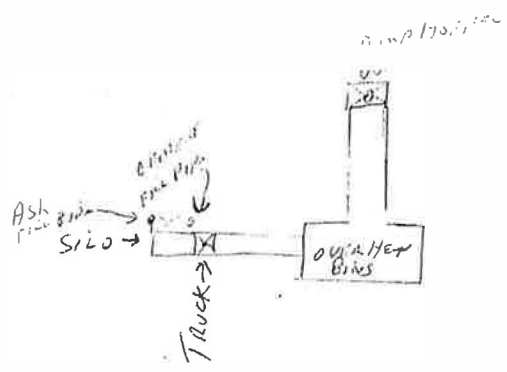
* Refer to the instructions for the estimation method and control device codes. If the code is "Other" specify in comments.

#5



STOCK PILES

ROW	SAND	ROW	SAND
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CONCRETE BATCH PLANT EMISSIONS CALCULATOR - OUTPUT SCREEN

REVISION D; October 15, 2015



This spreadsheet is for your use only and should be used with caution. DENR does not guarantee the accuracy of the information contained. This spreadsheet is subject to continual revision and updating. It is your responsibility to be aware of the most current information available. DENR is not responsible for errors or omissions that may be contained herein.

SOURCE / FACILITY / USER INPUT SUMMARY (FROM INPUT SCREEN)

General Facility Information

COMPANY NAME:	Mid-Way Concrete Products, Inc.
FACILITY ID NUMBER:	03-0039
PERMIT NUMBER	71712
FACILITY CITY:	Camden
FACILITY COUNTY:	Benton
SPREADSHEET PREPARED BY:	0

General Facility Information

MAXIMUM HOURLY THROUGHPUT AT TRUCK LOAD OUT	60	(yd ³ /hour)
ACTUAL ANNUAL PRODUCTION	60000	(yd ³ /year)

Facility Production Information

PERCENT OF ANNUAL LOADOUT THROUGH TRUCK MIX	100	(% by volume)
PERCENT OF ANNUAL LOADOUT THROUGH CENTRAL MIX	0	(% by volume)

Facility Emissions Control Information

IS THERE A CONTROL DEVICE ON THE TRUCK MIX?	2	(1=No, 2=Yes)
IS THERE A CONTROL DEVICE ON THE CENTRAL MIX?	1	(1=No, 2=Yes)

Material Composition Information

			Typical NC Comp.*
Cement	500	lbs	410 lbs
Supplement	0	lbs	120 lbs
Coarse Aggregate	1500	lbs	1884 lbs
Sand	1500	lbs	1443 lbs
Water	216	lbs	167 lbs
Total	3716	lbs	4024 lbs

* North Carolina typical material composition is based on data from industry contacts. User may enter site-specific data.

PARTICULATE MATTER EMISSIONS INFORMATION

	PARTICULATE EMISSIONS	ACTUAL EMISSIONS				POTENTIAL EMISSIONS			
		(AFTER CONTROLS / LIMITS)		(BEFORE CONTROLS / LIMITS)		(BEFORE CONTROLS / LIMITS)		(AFTER CONTROLS / LIMITS)	
		lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
truck mix*	PM	0.420	0.210	21.900	95.922	0.420	1.840		
	PM10	0.158	0.079	6.255	27.397	0.158	0.690		
central mix*	PM	0.000	0.000	0.000	0.000	0.000	0.000		
	PM10	0.000	0.000	0.000	0.000	0.000	0.000		
cement silo	PM	0.015	0.007	10.950	47.961	0.015	0.065		
	PM10	0.005	0.003	7.050	30.879	0.005	0.022		

CONCRETE BATCH PLANT EMISSIONS CALCULATOR - OUTPUT SCREEN

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suppl. Silo	PM	0.000	0.000	0.000	0.000	0.000	0.000
	PM10	0.000	0.000	0.000	0.000	0.000	0.000
weigh hopper** [sand & aggr.]	PM	0.432	0.216	0.432	1.892	0.432	1.892
	PM10	0.252	0.126	0.252	1.104	0.252	1.104
sand & aggr.	PM	1.215	0.608	1.215	5.322	1.215	5.322
	PM10	0.579	0.290	0.579	2.537	0.579	2.537
TOTAL PM	PM	2.082	1.041	34.497	151.097	2.082	9.119
TOTAL PM10	PM10	0.994	0.497	14.136	61.916	0.994	4.353
Title V Potential	PM10						0.022

*Truck/Central mix emission factors include emissions from cement & supplement weigh hopper(s).

**Actual/Potential weigh hopper (sand & aggr) emissions assumed uncontrolled since AP-42 reports "no data" for controlled.

CONCRETE BATCH PLANT EMISSIONS CALCULATOR - OUTPUT SCREEN

REVISION D; October 15, 2015



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TOXIC / HAZARDOUS AIR POLLUTANT EMISSIONS INFORMATION

POLLUTANT	CAS NUMBER	ACTUAL EMISSIONS		POTENTIAL EMISSIONS			
		(AFTER CONTROLS / LIMITS)		(BEFORE CONTROLS / LIMITS)		(AFTER CONTROLS / LIMITS)	
		lb/hr	lb/yr	lb/hr	lb/yr	lb/hr	lb/yr
Arsenic Unlisted Compounds (TH)	ASC-OTHER	2.39E-05	2.39E-02	1.05E-03	9.16E+00	2.39E-05	2.09E-01
Beryllium metal (TH)	7440-41-7	1.57E-06	1.57E-03	3.93E-06	3.44E-02	1.57E-06	1.37E-02
Cadmium Metal (TH)	7440-43-9	1.36E-07	1.36E-04	4.02E-06	3.52E-02	1.36E-07	1.19E-03
Chromic Acid (TH)	7738-94-5	6.19E-05	6.19E-02	1.75E-04	1.53E+00	6.19E-05	5.43E-01
Lead Unlisted Compounds (H)	PBC-OTHER	2.31E-05	2.31E-02	5.54E-04	4.85E+00	2.31E-05	2.02E-01
Manganese Unlisted compounds (TH)	MNC-OTHER	3.14E-04	3.14E-01	3.98E-03	3.48E+01	3.14E-04	2.75E+00
Nickel metal (TH)	7440-02-0	7.23E-05	7.23E-02	4.43E-04	3.88E+00	7.23E-05	6.34E-01
Phosphorus Metal Yellow or White (H)	7223-14-0	1.85E-04	1.85E-01	7.53E-04	6.60E+00	1.85E-04	1.62E+00
Selenium compounds (H)	SEC	1.70E-06	1.70E-03	3.93E-05	3.44E-01	1.70E-06	1.48E-02
Total HAPs		6.83E-04	6.83E-01	6.99E-03	6.13E+01	6.83E-04	5.98E+00
Highest HAP	Manganese	3.14E-04	3.14E-01	3.98E-03	3.48E+01	3.14E-04	2.75E+00

TOXIC AIR POLLUTANT EMISSIONS INFORMATION (FOR PERMITTING PURPOSES)

EXPECTED EMISSIONS AFTER CONTROLS / LIMITATIONS

(Daily calculations are based on maximum hourly plant capacity operating at 24 hours per day. If over the TPER, the facility should more closely analyze the maximum daily emissions based on actual operation. Annual calculations are based on the actual annual production as entered on the INPUT worksheet.)

POLLUTANT	CAS NUMBER	lb/hr	lb/day	lb/yr	TPER
Arsenic Unlisted Compounds (TH)	ASC-OTHER			0.0239	0.053 lb/yr
Beryllium metal (TH)	7440-41-7			0.002	0.28 lb/yr
Cadmium Metal (TH)	7440-43-9			0.000	0.37 lb/yr
Chromic Acid (TH)	7738-94-5		0.0015		0.013 lb/day
Manganese Unlisted compounds (TH)	MNC-OTHER		0.008		0.63 lb/day
Nickel metal (TH)	7440-02-0		0.002		0.13 lb/day



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