



# Indiana Department of Environmental Management

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

**Michael R. Pence**  
Governor

**Carol S. Comer**  
Commissioner

To: Interested Parties

Date: July 13, 2016

From: Matthew Stuckey, Chief  
Permits Branch  
Office of Air Quality

Source Name: Family Express Corporation #67

Permit Level: Exempt Construction and Operation Status

Permit Number: 089-37310-00591

Source Location: 140 N Mill Street, Lowell, Indiana

Type of Action Taken: Initial Permit

## Notice of Decision: Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the matter referenced above. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>  
To view the document, select Search option 3, then enter permit 37310.

If you would like to request a paper copy of the permit document, please contact IDEM's central file room:

Indiana Government Center North, Room 1201  
100 North Senate Avenue, MC 50-07  
Indianapolis, IN 46204  
Phone: 1-800-451-6027 (ext. 4-0965)  
Fax (317) 232-8659

*(continues on next page)*

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



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Michael R. Pence  
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Tom Navarre  
Family Express Corporation #67  
213 South State Road 49  
Valparaiso, IN 46383

July 13, 2016

Re: Exempt Construction and Operation Status,  
E089-37310-00591

Dear Tom Navarre:

The application from Family Express Corporation #67, received on June 16, 2016, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-1.1-3, it has been determined that the following stationary soil vapor remediation system located at 140 North Mill Street, Lowell, IN 46356 is classified as exempt from air pollution permit requirements:

- (a) One (1) combined soil vapor extraction and pump and treat systems, identified as SVE-1, approved in 2016 for construction, consisting of a vacuum pump to remove liquid and vapor with a maximum air flow capacity of 500 scfm at the exhaust stack.
- (b) Paved Roads and parking lots.

This exemption is the first air approval issued to this source.

A copy of the Exemption is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source. If you have any questions on this matter, please contact Monica Dick, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, at 317-234-1243 or at 1-800-451-6027 (ext 4-1243).

Sincerely,

Josiah K. Balogun, Section Chief  
Permits Branch  
Office of Air Quality

cc: File - Lake County  
Lake County Health Department  
Compliance and Enforcement Branch

**Indiana Department of Environmental Management  
Office of Air Quality**

Technical Support Document (TSD) for an Exemption

<b>Source Description and Location</b>
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<b>Source Name:</b>	<b>Family Express Corporation #67</b>
<b>Source Location:</b>	<b>140 North Mill Street, Lowell, IN 46356</b>
<b>County:</b>	<b>lake</b>
<b>SIC Code:</b>	<b>5541 (Gasoline Service Stations)</b>
<b>Exemption No.:</b>	<b>E 089-37310-00591</b>
<b>Permit Reviewer:</b>	<b>Monica Dick</b>

On June 16, 2016, the Office of Air Quality (OAQ) received an application from Family Express Corporation #67 related to the construction and operation of a soil vapor remediation system.

<b>Existing Approvals</b>
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There have been no previous approvals issued to this source.

<b>County Attainment Status</b>
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The source is located in Lake County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 <sup>th</sup> Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O <sub>3</sub>	On June 11, 2012, the U.S. EPA designated Lake County nonattainment, for the 8-hour ozone standard. <sup>12</sup>
PM <sub>2.5</sub>	Unclassifiable or attainment effective February 6, 2012, for the annual PM <sub>2.5</sub> standard.
PM <sub>2.5</sub>	Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM <sub>2.5</sub> standard.
PM <sub>10</sub>	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.

<sup>1</sup>The U. S. EPA has acknowledged in both the proposed and final rulemaking for this redesignation that the anti-backsliding provisions for the 1-hour ozone standard no longer apply as a result of the redesignation under the 8-hour ozone standard. Therefore, permits in Lake County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3 for the 1-hour standard.

<sup>2</sup>The department has filed a legal challenge to U.S. EPA's designation in 77 FR 34228.

- (a) **Ozone Standards**  
U.S. EPA, in the Federal Register Notice 77 FR 112 dated June 11, 2012, has designated Lake County as nonattainment for ozone. On August 1, 2012, the air pollution control board issued an emergency rule adopting the U.S. EPA's designation. This rule became effective August 9, 2012. IDEM does not agree with U.S. EPA's designation of nonattainment. IDEM filed a suit against U.S. EPA in the U.S. Court of Appeals for the DC Circuit on July 19, 2012. However, in order to assure that sources are not potentially

liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's designation. Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Therefore, VOC and NO<sub>x</sub> emissions were evaluated pursuant to the requirements of Emission Offset, 326 IAC 2-3.

- (b) PM<sub>2.5</sub>  
Lake County has been classified as attainment for PM<sub>2.5</sub>. Therefore, direct PM<sub>2.5</sub>, SO<sub>2</sub>, and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) Other Criteria Pollutants  
Lake County has been classified as attainment or unclassifiable in Indiana for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

#### **Fugitive Emissions**

The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-1.1-3 (Exemptions) applicability.

#### **Background and Description of Emission Units and Pollution Control Equipment**

The Office of Air Quality (OAQ) has reviewed an application, submitted by Family Express Corporation #67 on June 16, 2016, relating to the addition of a new soil vapor remediation system.

The following is a list of the new emission units:

- (a) One (1) combined soil vapor extraction and pump and treat systems, identified as SVE-1, approved in 2016 for construction, consisting of a vacuum pump to remove liquid and vapor with a maximum air flow capacity of 500 scfm at the exhaust stack.
- (b) Paved Roads and parking lots.

#### **Enforcement Issues**

There are no pending enforcement actions related to this source.

#### **Emission Calculations**

See Appendix A of this TSD for detailed emission calculations.

**Permit Level Determination – Exemption**

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	Potential To Emit of the Entire Source (tons/year)								
	PM	PM10*	PM2.5*	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP
Combined soil vapor extraction and pump and treat systems	-	-	-	-	-	4.31	-	0.57	0.35
Paved Roads and Parking Lots	0.18	0.03	0.00	-	-	-	-	-	-
<b>Total PTE of Entire Source</b>	0.18	0.03	0.00	-	-	<b>4.31</b>	-	<b>0.57</b>	<b>0.35</b>
Exemptions Levels**	< 5	< 5	< 5	< 10	< 10	< 5	< 25	< 25	< 10
Registration Levels**	< 25	< 25	< 25	< 25	< 25	< 25	< 100	< 25	< 10
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a regulated air pollutant".									

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of all regulated criteria pollutants are less than the levels listed in 326 IAC 2-1.1-3(e)(1). Therefore, the source is subject to the provisions of 326 IAC 2-1.1-3 (Exemptions).
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

**Federal Rule Applicability Determination**

New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the exemption.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the exemption.

Compliance Assurance Monitoring (CAM)

- (c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the exemption, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

### State Rule Applicability Determination

- (a) 326 IAC 2-1.1-3 (Exemptions)  
Exemption applicability is discussed under the Permit Level Determination – Exemption section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))  
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (c) 326 IAC 2-6 (Emission Reporting)  
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (d) 326 IAC 5-1 (Opacity Limitations)  
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this exemption:
  - (1) Opacity shall not exceed an average of twenty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (e) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)  
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (f) 326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter)  
The source is not subject to the requirements of 326 IAC 6.8-10, because potential fugitive particulate emissions are less than 5 tons per year.
- (g) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)  
The proposed combined soil vapor extraction and pump and treat systems, identified as SVE-1 is not subject to 326 IAC 8-1-6, because this system does not have the potential VOC emissions equal to or greater than twenty-five (25) tons per year.
- (h) There are no other 326 IAC 8 rules that are applicable to the proposed combined soil vapor extraction and pump and treat systems, identified as SVE-1.
- (i) 326 IAC 12 (New Source Performance Standards)  
See Federal Rule Applicability Section of this TSD.
- (j) 326 IAC 20 (Hazardous Air Pollutants)  
See Federal Rule Applicability Section of this TSD.

### Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on June 16, 2016.

The construction and operation of this source shall be subject to the conditions of the attached proposed Exemption No. 08937310-00591. The staff recommends to the Commissioner that this Exemption be approved.

### IDEM Contact

- (a) Questions regarding this proposed registration can be directed to Monica Dick at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-1243 or toll free at 1-800-451-6027 extension 4-1243.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emission Calculations  
Emission Summary**

**Company Name: Family Express Corporation #67  
Address City IN Zip: 140 North Mill Street, Lowell, Indiana  
Permit Number: 089-37310-00591  
Reviewer: Monica Dick**

<b>Uncontrolled/Unlimited Potential to Emit</b>									
<b>Emission Unit</b>	<b>PM</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>Combined HAPs</b>	<b>Benzene Worst Single HAP</b>
	<b>(tons/yr)</b>	<b>(tons/yr)</b>	<b>(tons/yr)</b>	<b>(tons/yr)</b>	<b>(tons/yr)</b>	<b>(tons/yr)</b>	<b>(tons/yr)</b>	<b>(tons/yr)</b>	<b>(tons/yr)</b>
Combined soil vapor extraction and pump and treat systems	-	-	-	-	-	4.31	-	0.57	0.35
Paved Roads and Parking Lots	0.18	0.03	0.00	-	-	-	-	-	-
<b>Total</b>	<b>0.18</b>	<b>0.03</b>	<b>0.00</b>	<b>-</b>	<b>-</b>	<b>4.31</b>	<b>-</b>	<b>0.57</b>	<b>0.35</b>

Soil vapor extraction system - VOCs

Company Name: Family Express Corporation #67  
 Address City IN Zip: 140 North Mill Street, Lowell, Indiana  
 Permit Number: 089-37310-00591  
 Reviewer: Monica Dick

Conditions	Air Flow =	500	cfm
c=constant at standard condition at 68 F, 29.2 inches of HG		=	385260000
			cuft / lb-mole

Contaminant	Conc. in ppmv	Molecular Weight (lb/lb-mole)	Emission Rate (lbs/hour) <sup>3</sup>	Emission Rate (tons/year)
4-Ethyltoluene	0.5	120.1916	0.004679629	0.02
4-Methyl-2-pentanone (MIBK)	2.5	100.1589	0.019498306	0.09
1,1,1-Trichloroethane	0.5	133.404	0.005194051	0.02
1,1,2,2-Tetrachloroethane	0.00024	167.849	3.13688E-06	0.00
<b>1,1,2-Trichloroethane</b>	0.00019	133.404	1.97374E-06	<b>0.00</b>
1,1-Dichloroethane	0.005	98.959	3.85294E-05	0.00
1,1-Dichloroethene	0.25	96.943	0.001887226	0.01
<b>1,2,4-Trichlorobenzene</b>	0.0005	120.1916	4.67963E-06	<b>0.00</b>
1,2,4-Trimethylbenzene	0.005	120.1916	4.67963E-05	0.00
1,2-dibromoethane (EDB)	0.00002	187.861	2.92573E-07	0.00
1,2-Dichlorobenzene	0.05	147.002	0.000572349	0.00
1,2-Dichloroethane	0.0005	98.959	3.85294E-06	0.00
1,2-Dichloropropane	0.0005	112.986	4.39908E-06	0.00
1,3,5-Trimethylbenzene	0.005	120.1916	4.67963E-05	0.00
<b>1,3-Butadiene</b>	0.0005	54.0904	2.106E-06	<b>0.00</b>
1,3-Dichlorobenzene	0.05	147.002	0.000572349	0.00
<b>1,4-Dichlorobenzene</b>	0.0005	147.002	5.72349E-06	<b>0.00</b>
<b>1,4-Dioxane</b>	0.0025	88.1051	1.71517E-05	<b>0.00</b>
2-Butanone (MEK)	5	72.1057	0.028074171	0.12
2-Hexanone	0.025	100.1589	0.000194983	0.00
Acetone	5	58.0791	0.02261295	0.10
<b>Benzene</b>	13.0	78.1118	0.079072839	<b>0.35</b>
<b>Benzyl Chloride</b>	0.0004	126.583	3.94278E-06	<b>0.00</b>
Bromodichloromethane	0.0004	163.829	5.10291E-06	0.00
<b>Bromoform</b>	0.005	252.731	9.84002E-05	<b>0.00</b>
Bromomethane	0.005	94.939	3.69643E-05	0.00
<b>Carbon Disulfide</b>	0.5	76.141	0.00296453	<b>0.01</b>
<b>Carbon Tetrachloride</b>	0.0005	153.823	5.98906E-06	<b>0.00</b>
<b>Chlorobenzene</b>	0.025	112.557	0.000219119	<b>0.00</b>
Chloroethane	0.025	64.514	0.000125592	0.00
<b>Chloroform</b>	0.0008	119.378	7.43672E-06	<b>0.00</b>
Chloromethane	0.05	50.488	0.000196574	0.00
cis-1,2-Dichloroethene	0.025	96.943	0.000188723	0.00
cis-1,3-Dichloropropene	0.005	110.97	4.32059E-05	0.00
Cyclohexane	8	84.1595	0.052427659	0.23
Dibromochloromethane	0.0005	208.28	8.10933E-06	0.00
Dichlorodifluoromethane	0.05	120.914	0.000470776	0.00
Ethyl Acetate	2.5	88.1051	0.017151748	0.08
<b>Ethylbenzene</b>	0.22	106.165	0.001818743	<b>0.01</b>
<b>Hexachloro-1,3-butadiene</b>	0.0005	260.76	1.01526E-05	<b>0.00</b>
Isooctane	31.4	114.2285	0.279300335	1.22
<b>m,p-Xylene</b>	0.380	106.165	0.003141466	<b>0.01</b>
<b>Methylene Chloride</b>	0.06	84.933	0.000396821	<b>0.00</b>
<b>Methyl-tert-butyl ether</b>	0.05	88.1482	0.000343203	<b>0.00</b>
N-Heptane	0.5	100.2019	0.003901335	0.02
N-Hexane	60.6	86.1754	0.406652331	1.78
<b>o-Xylene</b>	0.124	106.165	0.00102511	<b>0.00</b>
Propylene	0.5	42.0797	0.001638362	0.01
<b>Styrene</b>	0.5	104.1491	0.004055019	<b>0.02</b>
<b>Tetrachloroethene</b>	0.0023	165.833	2.97007E-05	<b>0.00</b>
Tetrahydrofuran	0.5	72.1057	0.002807417	0.01
<b>Toluene</b>	5	92.1384	0.035873851	<b>0.16</b>
trans-1,2-Dichloroethene	0.05	96.943	0.000377445	0.00
trans-1,3-Dichloropropene	0.005	110.97	4.32059E-05	0.00
<b>Trichloroethene</b>	0.001	131.388	1.02311E-05	<b>0.00</b>
Trichlorofluoromethane	0.5	137.368	0.005348388	0.02
<b>Vinyl Acetate</b>	0.25	86.0892	0.001675931	<b>0.01</b>
<b>Vinyl Bromide</b>	0.0005	106.949	4.16403E-06	<b>0.00</b>
<b>Vinyl Chloride</b>	0.0025	62.498	1.21667E-05	<b>0.00</b>
<b>Soil Vapor PTE VOCs</b>			<b>0.98</b>	<b>4.31</b>

Notes:

1. Constituents in BOLD represent Hazardous Air Pollutants (HAPs) per the 1990 Clean Air Amendments
2. Concentration of constituents below the laboratory detection limits are estimated as half the detection limits in the PTE calculations
3. Potential to Emit (PTE) in lbs/hr is calculated based on the equation below:  
 Using ideal gas conversion factor of 385.23 scf/lb-mole at 68°F and 14.6 psia which was multiplied by 1,000,000 ppm/part since concentration was based on parts per million

$$PTE \text{ lb/hr} = \frac{\text{conc. ppm}}{10^6 \text{ ppm/part}} \times \frac{\text{air flow scfh}}{385.23 \text{ scf/lb-mol}} \times \text{mol. Wt of pollutant, lb-lb-mol}$$

## Soil vapor extraction system - HAPs

Company Name: Family Express Corporation #67  
Address City IN Zip: 140 North Mill Street, Lowell, Indiana  
Permit Number: 089-37310-00591  
Reviewer: Monica Dick

HAPs	lbs/hr	tons/year
<i>1,1,2-Trichloroethane</i>	0.0000020	0.00001
<i>1,2,4-Trichlorobenzene</i>	0.0000047	0.00002
<i>1,3-Butadiene</i>	0.0000021	0.00001
<i>1,4-Dichlorobenzene</i>	0.0000057	0.00003
<i>1,4-Dioxane</i>	0.0000172	0.00008
<i>Benzene</i>	0.0790728	0.34634
<i>Benzyl Chloride</i>	0.0000039	0.00002
<i>Bromoform</i>	0.0000984	0.00043
<i>Carbon Disulfide</i>	0.0029645	0.01298
<i>Carbon Tetrachloride</i>	0.0000060	0.00003
<i>Chlorobenzene</i>	0.0002191	0.00096
<i>Chloroform</i>	0.0000074	0.00003
<i>Ethylbenzene</i>	0.0018187	0.00797
<i>Hexachloro-1,3-butadiene</i>	0.0000102	0.00004
<i>m,p-Xylene</i>	0.0031415	0.01376
<i>Methylene Chloride</i>	0.0003968	0.00174
<i>Methyl-tert-butyl ether</i>	0.0003432	0.00150
<i>o-Xylene</i>	0.0010251	0.00449
<i>Styrene</i>	0.0040550	0.01776
<i>Tetrachloroethene</i>	0.0000297	0.00013
<i>Toluene</i>	0.0358739	0.15713
<i>Trichlorethene</i>	0.0000102	0.00004
<i>Vinyl Acetate</i>	0.0016759	0.00734
<i>Vinyl Bromide</i>	0.0000042	0.00002
<i>Vinyl Chloride</i>	0.0000122	0.00005
<b>Total HAPs PTE</b>	<b>0.13</b>	<b>0.57</b>

HAP = Hazardous Air Pollutant per the 1990 Clean Air Amendments

PTE = Potential to Emit

Using ideal gas conversion factor of 385.23 scf/lb-mole at 68 °F and 14.6 psia w/ since concentration was based on parts per million

**Appendix A: Emission Calculations  
Fugitive Dust Emissions - Paved Roads**

**Company Name: Family Express Corporation #67  
Address City IN Zip: 140 North Mill Street, Lowell, Indiana  
Permit Number: 089-37310-00591  
Reviewer: Monica Dick**

**Paved Roads at Industrial Site**

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (12/2003).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	100.0	1.0	100.0	5.0	500.0	170	0.027	2.7	985.5
Vehicle (leaving plant) (one-way trip)	100.0	1.0	100.0	5.0	500.0	170	0.027	2.7	985.5
<b>Total</b>			<b>200.0</b>		<b>1000.0</b>			<b>5.4</b>	<b>1971.0</b>

Average Vehicle Weight Per Trip =  $\frac{5.0}{100.0}$  tons/trip  
Average Miles Per Trip =  $\frac{0.027}{100.0}$  miles/trip

Unmitigated Emission Factor,  $E_f = [k * (sL/2)^{0.65} * (W/3)^{1.5} - C]$  (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.082	0.016	0.00054	lb/mi = particle size multiplier (AP-42 Table 13.2.1-1)
W =	5.0	5.0	5.0	tons = average vehicle weight (provided by source)
C =	0.00047	0.00047	0.00047	lb/mi = emission factor for vehicle exhaust, brake wear, and tire wear (AP-42 Table 13.2.1-2)
sL =	2.4	2.4	2.4	g/m <sup>2</sup> = Silt Loading Values of paved roads (AP-42, Table 13.2.1-2)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor,  $E_{ext} = E * [1 - (p/4N)]$

Mitigated Emission Factor,  $E_{ext} = E_f * [1 - (p/4N)]$   
where p =  $\frac{125}{365}$  days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)  
N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f$ =	0.20	0.04	0.001	lb/mile
Mitigated Emission Factor, $E_{ext}$ =	0.18	0.04	0.001	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)
Vehicle (entering plant) (one-way trip)	0.10	0.02	0.09	0.02	0.0004	0.04	0.01
Vehicle (leaving plant) (one-way trip)	0.10	0.02	0.09	0.02	0.0004	0.04	0.01
	<b>0.20</b>	<b>0.04</b>	<b>0.18</b>	<b>0.03</b>	<b>0.001</b>	<b>0.09</b>	<b>0.02</b>

**Methodology**

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] \* [Maximum trips per day (trip/day)]  
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]  
Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] \* [Maximum one-way distance (mi/trip)]  
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]  
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]  
Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] \* [Unmitigated Emission Factor (lb/mile)] \* (ton/2000 lbs)  
Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] \* [Mitigated Emission Factor (lb/mile)] \* (ton/2000 lbs)  
Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] \* [1 - Dust Control Efficiency]

**Abbreviations**

PM = Particulate Matter  
PM10 = Particulate Matter (<10 um)  
PTE = Potential to Emit



# Indiana Department of Environmental Management

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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**Michael R. Pence**  
*Governor*

**Carol S. Comer**  
*Commissioner*

## **SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED**

**TO:** Tom Navarre  
Family Express Corporation #67  
213 S SR 49  
Valparaiso, IN 46388

**DATE:** July 13, 2016

**FROM:** Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

**SUBJECT:** Final Decision  
Exempt Construction and Operation Status  
089-37310-00591

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Mohamed Asif – Creek Run LLC Environmental Engineering  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 2/17/2016

# Mail Code 61-53

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2		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 (Local Official)										
3		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
4		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
5		Lowell Town Council and Town Manager PO Box 157, 501 East Main Street Lowell IN 46356 (Local Official)										
6		Shawn Sobocinski 1814 Laporte Street Portage IN 46368-1217 (Affected Party)										
7		Mr. Dennis Hahney Pipefitters Association, Local Union 597 1461 East Summit St Crown Point IN 46307 (Affected Party)										
8		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
9		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
10		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
11		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										
12		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										
13		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
14		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
15		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										

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1		Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)										
2		Mohamed Asif Creek Run LLC Environmental Engineering PO Box 114 Montpelier IN 47359 (Consultant)										
3		Ryan Dave 939 Cornwallis Munster IN 46321 (Affected Party)										
4		Mark Coleman PO Box 85 Beverly Shores IN 46301-0085 (Affected Party)										
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