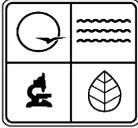


# Appendix B-1

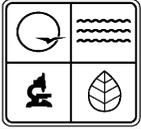
## EIQ Forms



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 1.0 GENERAL PLANT INFORMATION**

**Request Confidentiality - see instructions to initiate the confidentiality request.**

FACILITY NAME				FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA		
FACILITY STREET ADDRESS				COUNTY NAME				
CITY	ZIP CODE +4		PHONE NUMBER WITH AREA CODE		EXT.	FAX NUMBER WITH AREA CODE		
FACILITY MAILING ADDRESS			CITY		STATE	ZIP CODE +4		
FACILITY CONTACT NAME		FACILITY CONTACT TITLE		FACILITY CONTACT E-MAIL		WHERE TO SEND EIQ IN FUTURE (CHECK ONE) <input type="checkbox"/> Facility Mailing Address <input type="checkbox"/> Parent Company Mailing Address		
PRODUCT/PRINCIPAL ACTIVITY			SIC	NAICS		NUMBER OF EMPLOYEES		
	<b>LATITUDE</b>	<b>LONGITUDE</b>	<b>UTM COORDINATES</b>					
DEGREES			ZONE	EASTING (M)	NORTHING (M)	ACC (M)	HORIZONTAL DATUM (CHECK ONE)	
MINUTES							<input type="checkbox"/> NAD27	<input type="checkbox"/> WGS84
SECONDS							<input type="checkbox"/> NAD83	
PARENT COMPANY NAME				PHONE NUMBER WITH AREA CODE		EXT.	FAX NUMBER WITH AREA CODE	
MAILING ADDRESS				CITY		STATE	ZIP CODE +4	
CONTACT PERSON NAME		CONTACT PERSON TITLE		CONTACT PERSON E-MAIL			COUNTRY	
<b>TOTAL PLANT EMISSIONS FROM FORM 3.0 (TONS PER YEAR)</b>								
PM <sub>10</sub>	SO <sub>x</sub>	NO <sub>x</sub>	VOC	CO	LEAD	HAPs	PM <sub>2.5</sub> NH <sub>3</sub>	
<p>The undersigned hereby certifies that they have personally examined and are familiar with the information and statements contained herein and further certifies that they believe this information and statements to be true, accurate and complete. The undersigned certifies that knowingly making a false statement or misrepresenting the facts presented in this document is a violation of state law.</p>								
PRINT NAME OF PERSON COMPLETING FORM				TITLE		PAYMENT AMOUNT		
SIGNATURE				DATE		CHECK/AUTH. NO.		
PRINT NAME OF AUTHORIZED COMPANY REPRESENTATIVE				TITLE		PAYMENT DATE		
SIGNATURE				DATE				
<b>CONTACT INFORMATION</b>					<b>OFFICE USE ONLY</b>			
Missouri Department of Natural Resources Air Pollution Control Program 1659 E. Elm St. Jefferson City, MO 65101 573-751-4817 <a href="http://www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm">www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm</a> <a href="mailto:eiq@dnr.mo.gov">eiq@dnr.mo.gov</a>					LOGGED IN BY		DATE	



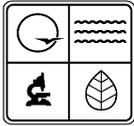
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 1.1 PROCESS FLOW DIAGRAM**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
---------------	-----------------	-----------	--------------

Use this page or a separate sheet to provide a Process Flow Diagram per the instructions for Form 1.1 in the Instruction Packet. Do not forget to include all processes used in your facility. Make sure to label each process and piece of equipment and provide an identification number for all emission units (including fugitive emissions) and air pollution control equipment. Make sure to use the same identification number throughout the entire EIQ.



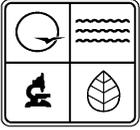




MISSOURI DEPARTMENT OF NATURAL RESOURCES  
AIR POLLUTION CONTROL PROGRAM

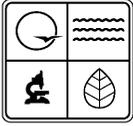
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.0 PART 70 OPERATING PERMIT EMISSION UNIT INFORMATION**

FACILITY NAME			FIPS COUNTY NO.		PLANT NO.		YEAR OF DATA	
<b>1. EMISSION UNIT IDENTIFICATION</b>								
EMISSION UNIT NO.		EMISSION UNIT DESCRIPTION						
<b>2. EMISSION PROCESS DETAIL</b>								
SEG. NO.		SOURCE CLASSIFICATION CODE (SCC)			SCC DESCRIPTION			
DO THE EMISSIONS FROM THIS UNIT FLOW THROUGH A STACK OR VENT? <input type="checkbox"/> Yes <input type="checkbox"/> No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION								
ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? <input type="checkbox"/> Yes <input type="checkbox"/> No IF FUGITIVE, WHAT PERCENTAGE?								
<b>3. OPERATING RATE/SCHEDULE</b>						<b>4. ANNUAL FUEL CHARACTERISTICS</b>		
ANNUAL THROUGHPUT			UNITS		DEC-FEB (%)		For coal or fuel oil, list details below	
					MAR-MAY (%)		Heat Content (BTU/Fuel Unit)	
HOURS / DAY		DAYS / WEEK	WEEKS / YR	TOTAL HOURS / YR		JUN-AUG (%)		ASH % (INCLUDE IN EF)
					SEPT-NOV (%)		SULFUR % (INCLUDE IN EF)	
<b>5. EMISSION CALCULATIONS</b>								
AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR (EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)	$\begin{array}{r} \text{Annual Throughput} \\ \times \text{Emission Factor} \\ \times (1\text{-Overall Control Eff}/100) \\ \hline \div 2,000 \\ \hline = \text{Actual Emissions (tons)} \end{array}$		
Instructions:	Choose from the Source of Emission Factor List at lower right	Lbs/unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing	List Other Worksheets or AP-42/Other Reference		
<b>PM<sub>10</sub> FIL *</b>						<b>SOURCE OF EMISSION FACTOR LIST</b>		
<b>SO<sub>x</sub></b>						1. CEM	Include documentation	
						2. Stack Test	Include documentation	
<b>NO<sub>x</sub></b>						3. Mass Balance	Include documentation	
						4. AP-42	Include reference	
<b>VOC</b>						4F. FIRE or webFIRE		
						5. Other	Include documentation	
<b>CO</b>						EC. Engr Calc	Include documentation	
						LS. Landfill Spdsht	Include documentation	
<b>LEAD</b>						TK. TANKS Program	Supply TANKS output	
						2.3. VOC Mass Bal	Complete Form 2.3	
<b>HAPs</b>						2.4. Liquid Loading	Complete Form 2.4	
						2.7. Haul Road	Complete Form 2.7	
<b>PM<sub>2.5</sub> FIL *</b>						2.8. Storage Pile	Complete Form 2.8	
						2.T. HAP Worksheet	Complete Form 2.T	
<b>NH<sub>3</sub></b>						2.9. Stack Test/CEM	Complete Form 2.9	
						2.0L. Landfill	Complete Form 2.0L	
<b>PM CON *</b>						* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.		



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.0C CONTROL DEVICE INFORMATION**

FACILITY NAME				FIPS COUNTY NO.		PLANT NO.		YEAR OF DATA	
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE		
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled			
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? <input type="checkbox"/> Yes <input type="checkbox"/> No									
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)									
<b>AIR POLLUTANT</b>	<b>PM<sub>10</sub></b>	<b>SO<sub>x</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>LEAD</b>	<b>HAP(s)</b>	<b>PM<sub>2.5</sub></b>	<b>NH<sub>3</sub></b>
CAPTURE EFFICIENCY (%)									
CONTROL DEVICE EFFICIENCY (%)									
SOURCE OF EFFICIENCY (CODES)									
CAS NUMBER(S) FOR CONTROLLED HAPS									
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE		
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled			
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? <input type="checkbox"/> Yes <input type="checkbox"/> No									
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)									
<b>AIR POLLUTANT</b>	<b>PM<sub>10</sub></b>	<b>SO<sub>x</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>LEAD</b>	<b>HAP(s)</b>	<b>PM<sub>2.5</sub></b>	<b>NH<sub>3</sub></b>
CAPTURE EFFICIENCY (%)									
CONTROL DEVICE EFFICIENCY (%)									
SOURCE OF EFFICIENCY (CODES)									
CAS NUMBER(S) FOR CONTROLLED HAPS									
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE		
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled			
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? <input type="checkbox"/> Yes <input type="checkbox"/> No									
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)									
<b>AIR POLLUTANT</b>	<b>PM<sub>10</sub></b>	<b>SO<sub>x</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>LEAD</b>	<b>HAP(s)</b>	<b>PM<sub>2.5</sub></b>	<b>NH<sub>3</sub></b>
CAPTURE EFFICIENCY (%)									
CONTROL DEVICE EFFICIENCY (%)									
SOURCE OF EFFICIENCY (CODES)									
CAS NUMBER(S) FOR CONTROLLED HAPS									

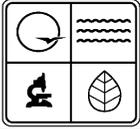


MISSOURI DEPARTMENT OF NATURAL RESOURCES  
AIR POLLUTION CONTROL PROGRAM

**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**

**FORM 2.0C PART 70 OPERATING PERMIT CONTROL DEVICE INFORMATION**

FACILITY NAME				FIPS COUNTY NO.		PLANT NO.		YEAR OF DATA		
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE			
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled				
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY?						<input type="checkbox"/> Yes <input type="checkbox"/> No				
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)										
<b>AIR POLLUTANT</b>	<b>PM<sub>10</sub> FIL</b>	<b>SO<sub>x</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>LEAD</b>	<b>HAP(s)</b>	<b>PM<sub>2.5</sub> FIL</b>	<b>NH<sub>3</sub></b>	<b>PM CON</b>
CAPTURE EFFICIENCY (%)										
CONTROL DEVICE EFFICIENCY (%)										
SOURCE OF EFFICIENCY (CODES)										
CAS NUMBER(S) FOR CONTROLLED HAPS										
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE			
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled				
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY?						<input type="checkbox"/> Yes <input type="checkbox"/> No				
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)										
<b>AIR POLLUTANT</b>	<b>PM<sub>10</sub> FIL</b>	<b>SO<sub>x</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>LEAD</b>	<b>HAP(s)</b>	<b>PM<sub>2.5</sub> FIL</b>	<b>NH<sub>3</sub></b>	<b>PM CON</b>
CAPTURE EFFICIENCY (%)										
CONTROL DEVICE EFFICIENCY (%)										
SOURCE OF EFFICIENCY (CODES)										
CAS NUMBER(S) FOR CONTROLLED HAPS										
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE			
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled				
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY?						<input type="checkbox"/> Yes <input type="checkbox"/> No				
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)										
<b>AIR POLLUTANT</b>	<b>PM<sub>10</sub> FIL</b>	<b>SO<sub>x</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>LEAD</b>	<b>HAP(s)</b>	<b>PM<sub>2.5</sub> FIL</b>	<b>NH<sub>3</sub></b>	<b>PM CON</b>
CAPTURE EFFICIENCY (%)										
CONTROL DEVICE EFFICIENCY (%)										
SOURCE OF EFFICIENCY (CODES)										
CAS NUMBER(S) FOR CONTROLLED HAPS										



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.0K CHARCOAL KILN INFORMATION**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	

**COMPLETE ONE OF THE FOLLOWING SECTIONS FOR EACH CHARCOAL KILN/CONCRETE PAD**

KILN ID NO.	YEAR KILN BEGAN OPERATING	TONS PRODUCED THIS YEAR	IF NO PRODUCTION, LAST YEAR OF PRODUCTION	AFTERBURNER OR RECOVERY SYSTEM <input type="checkbox"/> Yes <input type="checkbox"/> No
MAXIMUM TONS PRODUCED IN ONE BATCH	NUMBER OF HOURS REQUIRED TO PRODUCE ONE BATCH	MAX HOURLY DESIGN RATE	DOLLARS SPENT ON RENOVATION	
			LAST YEAR	SINCE 1991

PRESENT CONDITION

KILN ID NO.	YEAR KILN BEGAN OPERATING	TONS PRODUCED THIS YEAR	IF NO PRODUCTION, LAST YEAR OF PRODUCTION	AFTERBURNER OR RECOVERY SYSTEM <input type="checkbox"/> Yes <input type="checkbox"/> No
MAXIMUM TONS PRODUCED IN ONE BATCH	NUMBER OF HOURS REQUIRED TO PRODUCE ONE BATCH	MAX HOURLY DESIGN RATE	DOLLARS SPENT ON RENOVATION	
			LAST YEAR	SINCE 1991

PRESENT CONDITION

KILN ID NO.	YEAR KILN BEGAN OPERATING	TONS PRODUCED THIS YEAR	IF NO PRODUCTION, LAST YEAR OF PRODUCTION	AFTERBURNER OR RECOVERY SYSTEM <input type="checkbox"/> Yes <input type="checkbox"/> No
MAXIMUM TONS PRODUCED IN ONE BATCH	NUMBER OF HOURS REQUIRED TO PRODUCE ONE BATCH	MAX HOURLY DESIGN RATE	DOLLARS SPENT ON RENOVATION	
			LAST YEAR	SINCE 1991

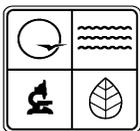
PRESENT CONDITION

KILN ID NO.	YEAR KILN BEGAN OPERATING	TONS PRODUCED THIS YEAR	IF NO PRODUCTION, LAST YEAR OF PRODUCTION	AFTERBURNER OR RECOVERY SYSTEM <input type="checkbox"/> Yes <input type="checkbox"/> No
MAXIMUM TONS PRODUCED IN ONE BATCH	NUMBER OF HOURS REQUIRED TO PRODUCE ONE BATCH	MAX HOURLY DESIGN RATE	DOLLARS SPENT ON RENOVATION	
			LAST YEAR	SINCE 1991

PRESENT CONDITION

KILN ID NO.	YEAR KILN BEGAN OPERATING	TONS PRODUCED THIS YEAR	IF NO PRODUCTION, LAST YEAR OF PRODUCTION	AFTERBURNER OR RECOVERY SYSTEM <input type="checkbox"/> Yes <input type="checkbox"/> No
MAXIMUM TONS PRODUCED IN ONE BATCH	NUMBER OF HOURS REQUIRED TO PRODUCE ONE BATCH	MAX HOURLY DESIGN RATE	DOLLARS SPENT ON RENOVATION	
			LAST YEAR	SINCE 1991

PRESENT CONDITION



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.0L LANDFILL WORKSHEET**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.

**LANDFILL INFORMATION**

TYPE OF LANDFILL (CHECK ONE) <input type="checkbox"/> New <input type="checkbox"/> Existing <input type="checkbox"/> Closed	IF CLOSED, DATE OF LAST WASTE ACCEPTED  	<input type="checkbox"/> Used EPA's software (LANDGEM) (attach summary)
	TIME SINCE CLOSURE (YRS.) c=  CELL(B15)	
TYPE OF CONTROL (CHECK ONE) <input type="checkbox"/> Flare <input type="checkbox"/> Control system <input type="checkbox"/> Enclosed combustor <input type="checkbox"/> None	TIME SINCE INITIAL REFUSE PLACEMENT (YRS.) t=  CELL(B13)	<input type="checkbox"/> Used DNR spreadsheet created with Microsoft® Excel® (attach copies)
	CAPTURE EFFICIENCY  CELL(B17)	
Default capture efficiency is 75 percent. Documentation must be supplied for other values.		

DESTRUCTION EFFICIENCY (%)  CELL(B24)	LANDFILL DESIGN CAPACITY (CUBIC METERS)
AVERAGE ANNUAL REFUSE ACCEPTANCE RATE (Mg/YR.) R=  CELL(B14)	MASS OF SOLID WASTE IN THE LANDFILL (Mg)
ACRES OF LANDFILL  CELL(B16)	GAS SENT OFF-SITE (MMCF)  CELL(B18)

**CALCULATION OF EMISSIONS**

Default values are 100 m<sup>3</sup>/Mg for L (Methane generation rate potential) and 0.04/yr for k (Methane generation rate constant).

METHANE GENERATION RATE (QCH4) (m <sup>3</sup> /YR.)  CELL(G11)	METHANE GENERATION RATE (MMCF)  CELL(H11)
SO <sub>2</sub> EMISSIONS (LB./YR.)  CELL(N35)	HCl EMISSIONS (LB./YR.)  CELL(I50)
NMOC (VOC) FUGITIVE EMISSIONS (LB./YR.)  CELL(G88)	NMOC (HAP ONLY) FUGITIVE EMISSIONS (LB./YR.)  CELL(G51)
NMOC (VOC) COLLECTED, UNCONTROLLED (LB./YR.)  CELL(I88)	NMOC (HAP ONLY) COLLECTED, UNCONTROLLED (LB./YR.)  CELL(I51)
NMOC (VOC) EMISSIONS FROM CONTROL (LB./YR.)  CELL(K88)	NMOC (HAP ONLY) EMISSIONS FROM CONTROL (LB./YR.)  CELL(K51)

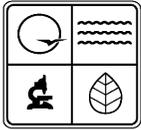
**CALCULATION OF EMISSION FACTORS**

Report fugitive emissions and controlled emissions on separate Forms 2.0.  
 Fugitive emissions use SCC 50100402, throughput units of acres.

VOC FUGITIVE EMISSION FACTOR (LB./ACRE)  CELL(L31)	HAP FUGITIVE EMISSION FACTOR (LB./ACRE)  CELL(L32)
--	--

Waste gas flares use SCC 50100410, throughput unit of MMCF burned.  
 For SCCs for other controls, contact your regulatory agency.

VOC TO CONTROL EMISSION FACTOR (LB./MMCF)  CELL(N31)	HAP TO CONTROL EMISSION FACTOR (LB./MMCF)  CELL(N33)
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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.0P PORTABLE PLANT INFORMATION**

COMPANY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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**PORTABLE EQUIPMENT OPERATING SITE INFORMATION**

FIPS COUNTY NO.	PLANT NO.	PROJECT NO.	TYPE OF INSTALLATION/UNIT
-----------------	-----------	-------------	---------------------------

SITE OR LOCATION NAME	PERCENT OF TOTAL THROUGHPUT AT SITE (%)	FIRST DATE AT SITE	LAST DATE AT SITE
-----------------------	---	--------------------	-------------------

ADDRESS	<b>Period of Operation</b>	HOURS	DAYS	WEEKS
CITY		ZIP CODE +4	PHONE NUMBER WITH AREA CODE	

CITY	ZIP CODE +4	PHONE NUMBER WITH AREA CODE	
------	-------------	-----------------------------	--

	<b>Latitude</b>	<b>Longitude</b>	<b>UTM Coordinates</b>		
--	-----------------	------------------	------------------------	--	--

Degrees			EASTING (M)	NORTHING (M)	ACC (M)	HORIZONTAL DATUM (CHECK ONE)
Minutes						<input type="checkbox"/> NAD27 <input type="checkbox"/> NAD83
Seconds						<input type="checkbox"/> WGS84

**PORTABLE EQUIPMENT OPERATING SITE INFORMATION**

FIPS COUNTY NO.	PLANT NO.	PROJECT NO.	TYPE OF INSTALLATION/UNIT
-----------------	-----------	-------------	---------------------------

SITE OR LOCATION NAME	PERCENT OF TOTAL THROUGHPUT AT SITE (%)	FIRST DATE AT SITE	LAST DATE AT SITE
-----------------------	---	--------------------	-------------------

ADDRESS	<b>Period of Operation</b>	HOURS	DAYS	WEEKS
CITY		ZIP CODE +4	PHONE NUMBER WITH AREA CODE	

CITY	ZIP CODE +4	PHONE NUMBER WITH AREA CODE	
------	-------------	-----------------------------	--

	<b>Latitude</b>	<b>Longitude</b>	<b>UTM Coordinates</b>		
--	-----------------	------------------	------------------------	--	--

Degrees			EASTING (M)	NORTHING (M)	ACC (M)	HORIZONTAL DATUM (CHECK ONE)
Minutes						<input type="checkbox"/> NAD27 <input type="checkbox"/> NAD83
Seconds						<input type="checkbox"/> WGS84

**PORTABLE EQUIPMENT OPERATING SITE INFORMATION**

FIPS COUNTY NO.	PLANT NO.	PROJECT NO.	TYPE OF INSTALLATION/UNIT
-----------------	-----------	-------------	---------------------------

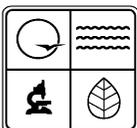
SITE OR LOCATION NAME	PERCENT OF TOTAL THROUGHPUT AT SITE (%)	FIRST DATE AT SITE	LAST DATE AT SITE
-----------------------	---	--------------------	-------------------

ADDRESS	<b>Period of Operation</b>	HOURS	DAYS	WEEKS
CITY		ZIP CODE +4	PHONE NUMBER WITH AREA CODE	

CITY	ZIP CODE +4	PHONE NUMBER WITH AREA CODE	
------	-------------	-----------------------------	--

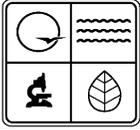
	<b>Latitude</b>	<b>Longitude</b>	<b>UTM Coordinates</b>		
--	-----------------	------------------	------------------------	--	--

Degrees			EASTING (M)	NORTHING (M)	ACC (M)	HORIZONTAL DATUM (CHECK ONE)
Minutes						<input type="checkbox"/> NAD27 <input type="checkbox"/> NAD83
Seconds						<input type="checkbox"/> WGS84



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.0S STACK/VENT INFORMATION**

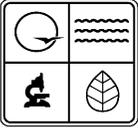
FACILITY NAME		FIPS COUNTY NO.		PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) <sup>1/2</sup> (A=CROSS-SECTIONAL AREA IN SQ FEET)
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) <sup>1/2</sup> (A=CROSS-SECTIONAL AREA IN SQ FEET)
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) <sup>1/2</sup> (A=CROSS-SECTIONAL AREA IN SQ FEET)
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) <sup>1/2</sup> (A=CROSS-SECTIONAL AREA IN SQ FEET)
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) <sup>1/2</sup> (A=CROSS-SECTIONAL AREA IN SQ FEET)
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) <sup>1/2</sup> (A=CROSS-SECTIONAL AREA IN SQ FEET)
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) <sup>1/2</sup> (A=CROSS-SECTIONAL AREA IN SQ FEET)
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
AIR POLLUTION CONTROL PROGRAM

**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.OZ OZONE SEASON INFORMATION - EMISSIONS STATEMENT**

FACILITY NAME		FIPS COUNTY NO.		PLANT NO.		YEAR OF DATA	
<b>OPERATING RATE/SCHEDULE (DURING PEAK OZONE SEASON ONLY)</b>							
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DAILY THROUGHPUT		UNITS
DAYS/WEEK		WEEKS OF OPERATION		START TIME ON TYPICAL DAY		END TIME ON TYPICAL DAY	
<b>EMISSIONS CALCULATIONS</b>							
Air Pollutant		Emission Factor		Control Efficiency (%)		Actual Emissions (lbs./day)	
VOC							
NO <sub>x</sub>							
CO							
<b>OPERATING RATE/SCHEDULE (DURING PEAK OZONE SEASON ONLY)</b>							
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DAILY THROUGHPUT		UNITS
DAYS/WEEK		WEEKS OF OPERATION		START TIME ON TYPICAL DAY		END TIME ON TYPICAL DAY	
<b>EMISSIONS CALCULATIONS</b>							
Air Pollutant		Emission Factor		Control Efficiency (%)		Actual Emissions (lbs./day)	
VOC							
NO <sub>x</sub>							
CO							
<b>OPERATING RATE/SCHEDULE (DURING PEAK OZONE SEASON ONLY)</b>							
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DAILY THROUGHPUT		UNITS
DAYS/WEEK		WEEKS OF OPERATION		START TIME ON TYPICAL DAY		END TIME ON TYPICAL DAY	
<b>EMISSIONS CALCULATIONS</b>							
Air Pollutant		Emission Factor		Control Efficiency (%)		Actual Emissions (lbs./day)	
VOC							
NO <sub>x</sub>							
CO							



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.1 FUEL COMBUSTION WORKSHEET**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.

**1. COMBUSTION EQUIPMENT INFORMATION**

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL				
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)	Sum of total maximum hourly design rates			

**COMBUSTION EQUIPMENT USE (CHECK ONE)**

Electric power generation    
  Industrial use    
  Commercial/Institutional    
  Space heating  
 Other (specify):

**COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)**

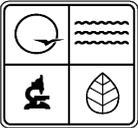
Pulverized coal    
  Pulverized coal dry bottom    
  Pulverized coal wet bottom    
  Cyclone  
 Fluidized bed    
  Spreader stoker    
  Overfeed stoker    
  Underfeed stoker  
 Hand fired    
 Other (specify):

**2. FUEL INFORMATION (CHECK ONLY ONE)**

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
<input type="checkbox"/> Ethanol <input type="checkbox"/> Fuel oil 1-4 (distillate) <input type="checkbox"/> Fuel oil 5-6 (residual) <input type="checkbox"/> Gasoline <input type="checkbox"/> Kerosene	<input type="checkbox"/> Blast oven gas <input type="checkbox"/> Coke oven gas <input type="checkbox"/> Liquid propane gas (LPG) <input type="checkbox"/> Natural gas	<input type="checkbox"/> Anthracite Coal <input type="checkbox"/> Bagasse <input type="checkbox"/> Bark <input type="checkbox"/> Bituminous coal <input type="checkbox"/> Coke <input type="checkbox"/> Lignite <input type="checkbox"/> Subbituminous coal <input type="checkbox"/> Wood	<input type="checkbox"/> Other (specify):

**3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE**

<b>TOTAL HEAT CONTENT (BTU/FUEL UNIT)</b>	<b>MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)</b>	$  \text{Maximum Design Rate (mmbtu/hr.)} \times 1,000,000 \text{ (btu/mmbtu)} = \frac{\text{Heat Content (btu/fuel unit)}}{\text{Heat Content (btu/fuel unit)}}  $



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
AIR POLLUTION CONTROL PROGRAM

**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ  
FORM 2.2 INCINERATOR WORKSHEET**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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**1. EQUIPMENT INFORMATION**

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC UNITS	SEG. NO.
MAXIMUM HOURLY DESIGN RATE	UNITS/HR.	MAKE / MODEL	SERIAL NUMBER

**INCINERATOR USE (CHECK ONE):**

- Government     
  Commercial     
  Institutional     
  Industrial  
 Other (specify):

**EQUIPMENT TYPE (CHECK APPROPRIATE BOXES):**

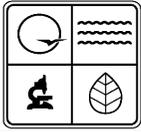
- Pathological     
  Sewage sludge     
  Multiple chambers     
  Controlled air  
 Other (specify):

NUMBER OF CHAMBERS NOT INCLUDING STACK	SECONDARY CHAMBER TEMPERATURE (F)
--	-----------------------------------

**2. WASTE INFORMATION AND THROUGHPUTS**

PROCESS WASTE TYPES	HEAT CONTENT (BTU/UNITS)	ANNUAL THROUGHPUT	UNITS
Total annual throughput =			LBS./YR.
Total annual throughput (TONS/YR.) = {Total annual throughput (LBS./YR.)} / 2,000			TONS/YR.

Enter the total annual throughput (TONS/YR.) into Section 3 on Form 2.0.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.3 VOC PROCESS MASS-BALANCE WORKSHEET**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SCC	SEG. NO.	

**INSTRUCTIONS**

If your facility already calculates your VOC or HAP emissions and emission factor directly through a spreadsheet or engineering calculation, this form is **optional** as long as you supply your supporting documentation. This form is designed for annual throughputs measured in **gallons or tons only**. If you use another unit of measure, supply documentation of how you calculated total emissions and an emission factor. Maintain copies of the Material Safety Data Sheet for each material listed and hazardous waste shipment reports for on-demand requests.

**1. TOTAL ANNUAL THROUGHPUT AND TOTAL POUNDS OF VOC**

APPLICATION METHOD	MATERIAL TYPE	[A] ANNUAL THROUGHPUT (ton/yr. or gal./yr.)	[B] MAXIMUM % BY WT. OF VOC IN MATERIAL	[C] DENSITY (LBS./UNIT) IF (A) IN TONS, (C)=2,000	[D] LBS. OF VOC PER UNIT (B) x (C) = (D)	[E] VOC (LBS./YR.) (A) x (D) = (E)
Enter the total annual throughput value [F] into Section [3], Annual Throughput on Form 2.0		[F] TOTAL ANNUAL THROUGHPUT				[G] TOTAL VOC (LBS./YR.)

**2. CALCULATION OF POUNDS OF VOC RECOVERED**

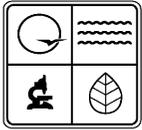
AMOUNT OF MATERIAL SHIPPED AS HAZARDOUS WASTE (LBS./YR.)	x	% VOC CONTENT OF WASTE	=	[H] LBS. OF VOC RECOVERED
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**3. CALCULATION OF POUNDS OF VOC EMITTED PRIOR TO CONTROL EQUIPMENT**

[G] - [H] = [I] [Total lbs. of VOC] - [lbs. of VOC recovered] =	[I] LBS. OF VOC EMITTED PRIOR TO CONTROL
--	--

**4. CALCULATION OF EMISSION FACTOR**

[I] / [F] = [J] [lbs of VOC emitted prior to control equipment] / [Total annual throughput] =	Enter [J] on Form 2.0 as VOC EF	[J] EMISSION FACTOR IN LBS./UNIT
--	---------------------------------	----------------------------------



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.4 VOLATILE ORGANIC LIQUID LOADING WORKSHEET**

Note: This form is used to calculate emissions from loading organic liquids into tank trucks, rail tank cars and barges.

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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**1. LOADING INFORMATION**

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
ANNUAL THROUGHPUT OF LIQUID (1,000 GALLONS)	CONTROL DEVICE TYPE	CONTROL EFFICIENCY (%)

TYPE OF LOADING (CHECK ONE)

Splash loading                     
  Submerged loading                     
  Bottom loading  
 Other (specify):

**2. CHEMICAL INFORMATION**

BULK LIQUID TYPE	MOLECULAR WEIGHT OF MATERIAL LOADED [LB. / (LB./MOLE)]
TRUE VAPOR PRESSURE OF BULK LIQUID (PSIA)	SATURATION FACTOR
TEMPERATURE OF LIQUID (DEGREES RANKINE) = DEGREES FAHRENHEIT + 460 DEGREES FAHRENHEIT	

**3. LOADING LOSS EMISSION FACTOR CALCULATION**

**LOADING LOSS EMISSION FACTOR =**

$$12.46 \times (\text{Molecular Weight}) \times (\text{True vapor pressure}) \times (\text{Saturation}) / (\text{Temperature in Degrees Rankine})$$

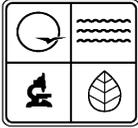
LOADING LOSS EMISSION FACTOR	UNITS
	lbs. per 1,000 gallons

**NOTE**

Enter the Control Efficiency (%) from Section 1 (above) into Section 5, Column 4 on Form 2.0.  
 Enter the Annual Throughput of Liquid from Section 1, expressed in thousands of gallons, into Section 3 on Form 2.0.  
 Enter the Loading Loss Emission Factor from Section 3 into the VOC box of Section 5, Column 2 on Form 2.0

Remember when calculating emissions, use a separate Form 2.0, *Emission Unit Information*, for each type of liquid loaded in the tank during the year.

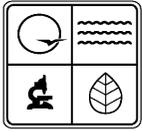
Use the same unit number but with the Source Classification Code that corresponds to the different liquid type.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
AIR POLLUTION CONTROL PROGRAM

**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.5L GENERAL LIQUID STORAGE TANK INFORMATION**

FACILITY NAME		FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA		
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL	CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground			
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL	CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground			
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL	CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground			
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL	CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground			
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL	CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground			
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL	CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground			



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.7 HAUL ROAD FUGITIVE EMISSIONS WORKSHEET**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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**INSTRUCTIONS**

This worksheet is **optional**

If the sum of all Vehicle Miles Traveled, or VMT, at the facility is less than 100, this form is not necessary and the emission unit should be marked as insignificant on Form 1.2.

If the haul road parameters are the same as last year and the updated emission factor equation is used (AP-42, Section 13.2.2, *Unpaved Roads*, Nov. 2006), enter the current annual VMT as the throughput on Form 2.0.

Do not calculate a separate emission factor for each vehicle class. Use the weighted average for the entire fleet traveling the haul road to calculate the emission factors.

**1. HAUL ROAD INFORMATION**

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	Type of Dust Control (check one)	Control Efficiency
LENGTH OF ROAD (MILES): IF ONE-WAY, DIVIDE BY 2			<input type="checkbox"/> Paved with Washing	95%
			<input type="checkbox"/> Paved	90%
SILT CONTENT (%) (DEFAULT = 8.3%)			<input type="checkbox"/> Surfactant Spray	90%
			<input type="checkbox"/> Water Spray Documented	90%
DAYS OF RAIN WITH AT LEAST 0.01" PER YEAR (DEFAULT = 105)			<input type="checkbox"/> Water Spray	50%
			<input type="checkbox"/> Other - Specify	
			<input type="checkbox"/> No Controls	0%

**2. HAUL TRUCK INFORMATION**

MAKE/MODEL	UNLOADED TRUCK WEIGHT (TONS) — WEIGHTED AVERAGE FOR FLEET
AVERAGE WEIGHT OF MATERIAL PER LOAD (TONS)	AVERAGE LOADED WEIGHT (TONS) — WEIGHTED AVERAGE FOR FLEET

**3. MATERIAL HAULED**

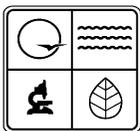
TYPE OF MATERIALS HAULED	ANNUAL AMOUNT HAULED (TONS)
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**4. CALCULATION OF ANNUAL VEHICLES MILES TRAVELED**

ANNUAL VMT	$\text{Annual VMT} = \frac{2 \times (\text{Length of road}) \times (\text{Annual amount hauled})}{(\text{Average weight of material per load})}$
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**5. CALCULATION OF HAUL ROAD UNCONTROLLED EMISSION FACTOR**

PM <sub>2.5</sub> Emission Factor	$0.15 \times \left( \frac{\text{Silt Content \%}}{12} \right)^{0.9} \times \left( \frac{\text{Unloaded truck weight} + \text{Loaded truck weight (tons)}}{6} \right)^{0.45} \times \left( \frac{365 - \text{Days of Rain}}{365} \right)$	PM <sub>2.5</sub> EMISSION FACTOR
PM <sub>10</sub> Emission Factor	$1.5 \times \left( \frac{\text{Silt Content \%}}{12} \right)^{0.9} \times \left( \frac{\text{Unloaded truck weight} + \text{Loaded truck weight (tons)}}{6} \right)^{0.45} \times \left( \frac{365 - \text{Days of Rain}}{365} \right)$	PM <sub>10</sub> EMISSION FACTOR



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.8 STORAGE PILE WORKSHEET**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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**1. STORAGE PILE INFORMATION**

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	TYPE OF MATERIAL STORED
	ACTIVITY		
	WIND EROSION		
MOISTURE CONTENT (%)  (DEFAULT = 0.7%)		AREA OF STORAGE PILE (ACRES)	
SILT CONTENT(%)  (DEFAULT = 1.6%)		RAW MATERIAL LOADING METHOD (CHECK ONE):	RAW MATERIAL UNLOADING METHOD (CHECK ONE):
STORAGE DURATION (DAYS)		<input type="checkbox"/> Barge	<input type="checkbox"/> Barge
ANNUAL AMOUNT STORED (TONS)		<input type="checkbox"/> Rail	<input type="checkbox"/> Rail
MAXIMUM HOURLY AMOUNT STORED (TONS)		<input type="checkbox"/> Truck	<input type="checkbox"/> Truck
		<input type="checkbox"/> Conveyor	<input type="checkbox"/> Conveyor
		<input type="checkbox"/> Other (specify)	<input type="checkbox"/> Other (specify)
		_____	_____

**2. OTHER FACTORS AFFECTING EMISSION RATES**

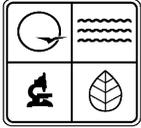
MEAN WIND SPEED (MPH)  (DEFAULT = 10 MPH)	% OF TIME WIND > 12 MPH  (DEFAULT = 32%)
DRY DAYS PER YEAR  (DEFAULT = 260 DAYS)	VEHICLE ACTIVITY FACTOR  (DEFAULT = 1.0)

**4. STORAGE PILE EMISSION FACTOR CALCULATIONS**

CALCULATION	FORMULA	RESULT
[3-A-1] Load In - Load Out Component (lb./ton)	$0.0032 \times .35 \times (\text{Mean wind speed} / 5)^{1.3} / (\text{Moisture content} \% / 2)^{1.4}$	
[3-A-2] Vehicle Activity Component (lb./ton)	$0.05 \times (\text{Silt content} \% / 1.5) \times (\text{Dry days per year} / 235) \times \text{Vehicle Activity Factor}$	
[3-A-3] Activity PM10 Emission Factor (lb./ton)	[3-A-1] Load In - Load Out Component + [3-A-2] Vehicle Activity Component	
[3-B] Wind Erosion PM10 Emission Factor (lb./acre-yr.)	$0.85 \times (\text{Silt content} \% / 1.5) \times (\text{Storage duration (Days)}) \times (\text{Dry days per year} / 235) \times (\% \text{ of time wind} > 12 \text{ MPH} / 15)$	

**NOTE**

If you use a Source Classification Code and emission factor from the list in the instructions for this form, make sure to complete Section 1, Storage Pile Information for each storage pile.

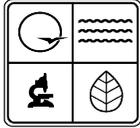


MISSOURI DEPARTMENT OF NATURAL RESOURCES  
AIR POLLUTION CONTROL PROGRAM

**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**

**FORM 2.9 STACK TEST/CONTINUOUS EMISSIONS MONITOR WORKSHEET**

FACILITY NAME		FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	STACK NO.
TYPE <input type="checkbox"/> CEM <input type="checkbox"/> Stack test	POLLUTANT TESTED	CAS NUMBER		Note: Use a separate worksheet for each pollutant tested.
<b>1. EMISSION SOURCE INFORMATION</b>				
EQUIPMENT MAKE/MODEL				
TYPE OF CONTROL DEVICE				
LIMITATIONS ON EMISSIONS, PRODUCTION OR OPERATING TIME (IF ANY)				
<b>2. STACK TEST INFORMATION</b>				
TESTING FIRM NAME				
TESTING FIRM ADDRESS		CITY	STATE	ZIP CODE + 4
EPA METHOD(S) USED		TEST DATE(S)	RESULTS	COMPLIANCE <input type="checkbox"/> Yes <input type="checkbox"/> No
TEST TECHNIQUE (CHECK ONE) <input type="checkbox"/> Operational Rate <input type="checkbox"/> Maximum Design Rate <input type="checkbox"/> Both			LATEST CALIBRATION OF TESTING EQUIPMENT	
AGENCY OBSERVING TEST (CHECK ONE) <input type="checkbox"/> EPA <input type="checkbox"/> DNR <input type="checkbox"/> Other			NAME OF OBSERVER(S)	
<b>3. CONTINUOUS EMISSION MONITORING INFORMATION</b>				
CONCENTRATION OF POLLUTANT	UNITS	FLOW RATE OF STACK	UNITS	
LATEST CALIBRATION OF MONITOR		RESULTS OF CALIBRATION		
MONITOR AVERAGING PERIOD		PERCENT MONITOR DOWN TIME		
<b>4. EMISSION FACTOR CALCULATION</b>				
EMISSION RATE	UNITS	Note: Documentation should include summary page information from the test data to verify the emission and production rate.		
PRODUCTION RATE	UNITS/HR.			
<b>EMISSION FACTOR =</b> <b>[[EMISSION RATE] / [PRODUCTION RATE]]</b>				
EMISSION FACTOR				UNITS
Enter the emission factor into the appropriate box in Section 5, Column 3 on Form 2.0. If applicable, enter the control device type and control efficiency (%) in Section 5 on Form 2.0.				



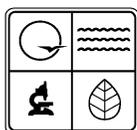
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.T HAZARDOUS AIR POLLUTANT WORKSHEET**

FACILITY NAME					FIPS COUNTY NO.		PLANT NO.	YEAR OF DATA	
EMISSION UNIT NO.					SOURCE CLASSIFICATION CODE (SCC)			SEG. NO.	

Use this form to report any Hazardous Air Pollutant, or HAP, which is emitted in any amount greater than the chemical reporting levels per each emission unit. The instructions for this form provide a list of the HAPs regulated under the Clean Air Act. The amount emitted (Column 4) should be reported before control equipment reductions are applied. Provide documentation (other worksheets, etc.) if the amount in Column 3 does not equal the amount in Column 4. The HAP reporting levels per emission unit are as follows: Category 1 HAPs - sum of 20 pounds per year; All other HAPs - sum of 200 pounds per year.

1. HAP CHEMICAL	2. CAS NUMBER	3. AMOUNT USED OR HANDLED (LBS./YR.)	4. UNCONTROLLED AMOUNT EMITTED (LBS./YR.)	5. UNCONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	6. UNCONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)	7. HAP CONTROL DEVICE(S)	8. CONTROL EFFICIENCY (%)	9. CONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	10. CONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)
		HAP Emission Totals =		SUM (LBS./YR.)	SUM (LBS./YR.)			SUM (LBS./YR.)	SUM (LBS./YR.)
Uncontrolled HAP Emission Factor =		Sum of uncontrolled emissions reported as HAPs (Column 6 Total)/Annual Throughput (Form 2.0)			11. HAP EMISSION FACTOR				

Enter the HAP emission factor for all chemicals that are not reported as VOCs or PM10 from Block 11 above as the HAP Emission Factor in Section 5 on Form 2.0.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 3.0 EMISSIONS FEE CALCULATION**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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<b>1.</b>	Use one row to list the emissions from one emission unit. Sum the emissions in the page total box at the bottom of the column. If more than one page is needed, use the first row of the duplicated page to list the page totals from this page. Express figures in tons per year and round to two decimal places.								
<b>EMISSION UNIT NO.</b>									
<b>SCC</b>	<b>AIR POLLUTANT</b>								
	<b>PM<sub>10</sub></b>	<b>SO<sub>x</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>LEAD</b>	<b>HAPs</b>	<b>PM<sub>2.5</sub></b>	<b>NH<sub>3</sub></b>
<b>PAGE TOTALS</b>									

**Note: Fill out the lower portion of this form one time only.**

**2. ACTUAL EMISSIONS** (Use the sum of all page totals for each pollutant for actual emission figures below.)

Total	<b>PM<sub>10</sub></b>	<b>SO<sub>x</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>LEAD</b>	<b>HAPs</b>	<b>PM<sub>2.5</sub></b>	<b>NH<sub>3</sub></b>

Copy the actual emissions from section 2 to the appropriate box(es) in the Total Plant Emissions Section of *Form 1.0 General Plant Information*.

**3. CHARGEABLE EMISSIONS** (Maximum 4,000 Tons/Yr. cap per pollutant)

Total						<b>NO FEES FOR CO</b>			<b>NO FEES FOR PM<sub>2.5</sub></b>	<b>NO FEES FOR NH<sub>3</sub></b>

**4. SUM OF CHARGEABLE EMISSIONS SUBJECT TO FEES**

Round chargeable emissions to the nearest whole ton. The minimum emission tonnage is one ton, and the maximum is 12,000 tons per year.

**5. TOTAL ANNUAL EMISSIONS FEE**

Multiply the sum of chargeable emissions as calculated in section 4 by \$40 and enter this amount in section 5. The minimum fee is \$40.

**6. ANNUAL EMISSIONS FEE REMITTED TO THE CITY OF KANSAS CITY OR ST. LOUIS COUNTY LOCAL AIR AGENCY**

CHECK NUMBER	CHECK DATE	AMOUNT REMITTED IN CALENDAR YEAR OF RECORD

**7. ANNUAL EMISSIONS FEE REMITTED TO THE STATE (SECTION 5 MINUS SECTION 6)**

CHECK NUMBER	CHECK DATE	CHECK AMOUNT
		\$

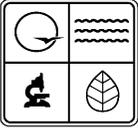
**8. INCLUDE A CHECK FOR THE AMOUNT IN SECTION 7, PAYABLE TO THE MISSOURI AIR POLLUTION CONTROL PROGRAM.**

Mail the check for the emissions fee to the State Air Agency listed on Form 1.0.

**9. SEND THE COMPLETED QUESTIONNAIRE AND ANY SUPPORTING DOCUMENTATION TO THE AGENCY LISTED AT THE BOTTOM OF FORM 1.0 GENERAL PLANT INFORMATION.**

Facilities within local air program jurisdiction only need to include copies of *Form 1.0 General Plant Information*, *Form 3.0 Emissions Fee Calculation* and *Form 4.0 Financial Cost Estimate* with the emissions fee check.





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 3.0 CK CHARCOAL KILN EMISSIONS FEE CALCULATION**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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<b>1.</b>	Use one row to list the emissions from one emission unit. Sum the emissions in the page total box at the bottom of the column. If more than one page is needed, use the first row of the duplicated page to list the page totals from this page. Express figures in tons per year and round to two decimal places.								
<b>EMISSION UNIT NO</b>									
<b>SCC</b>	<b>AIR POLLUTANT</b>								
	<b>PM<sub>10</sub></b>	<b>SO<sub>x</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>LEAD</b>	<b>HAPs</b>	<b>PM<sub>2.5</sub></b>	<b>NH<sub>3</sub></b>
<b>PAGE TOTALS</b>									

**Note: Fill out the lower portion of this form one time only.**

<b>2. ACTUAL EMISSIONS</b> (Use the sum of all page totals for each pollutant for actual emission figures below.)									
	<b>PM10</b>	<b>SO<sub>x</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>LEAD</b>	<b>HAPs</b>	<b>PM2.5</b>	<b>NH<sub>3</sub></b>

Copy the actual emissions from section 2 to the appropriate box(s) in the Total Plant Emissions section of Form 1.0.

<b>3. CHARGEABLE EMISSIONS</b> (Maximum 4,000 Tons/Yr. cap per pollutant)									
					<b>NO FEES FOR CO</b>			<b>NO FEES FOR PM2.5</b>	<b>NO FEES FOR NH3</b>

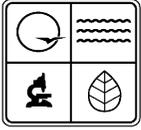
<b>4. SUM OF EMISSIONS</b>						Tons/Yr.			
Round figure to nearest ton per year									

<b>5. TOTAL ANNUAL EMISSIONS FEE</b>									
Facilities that produce charcoal from wood are exempt from fees.									

**6. INCLUDE A CHECK FOR THE AMOUNT IN BOX 5, PAYABLE TO THE MISSOURI AIR POLLUTION CONTROL PROGRAM.**  
 Mail the check for the emissions fee to the State Air Agency listed on Form 1.0.

**7. SEND THE COMPLETED QUESTIONNAIRE AND ANY SUPPORTING DOCUMENTATION TO THE AGENCY LISTED AT THE BOTTOM OF FORM 1.0.**

Facilities within local air program jurisdiction only need to include copies for Form 1.0, 3.0 and 4.0 with the emissions fee check.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 4.0 FINANCIAL COST ESTIMATE**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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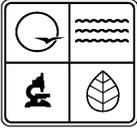
The Missouri Air Conservation Law, Chapter 643, requires a financial cost estimate. The cost estimate is an evaluation of any additional costs of doing business attributable to the Federal Clean Air Act, as amended.

Calculate the cost and expenses incurred to complete the Emission Inventory Questionnaire, including the calculation of emission fees. If you hired an outside consultant, include the time and money charged to your company. Also include any cost incurred if you installed air pollution control equipment, any additional monitoring or testing expense or any additional personnel costs incurred to comply with the Missouri Air Conservation Law and the Federal Clean Air Act, as amended.

**Be sure to use the codes found in the instructions: [www.dnr.mo.gov/env/apcp/eiq/eiqinformation.htm](http://www.dnr.mo.gov/env/apcp/eiq/eiqinformation.htm) .**

CATEGORY REPORTING	CODE FOR PERSONNEL OR EQUIPMENT	NUMBER OF EMPLOYEES	TOTAL NUMBER OF HOURS REQUIRED	COST PER HOUR	TOTAL COST
1. EIQ reviewed and completed by company personnel (engineers, technical specialists, others).					
2. EIQ completed by outside engineering consultants.					
3. Pollution control equipment, monitoring, or testing (List items separately).					
4. Estimate of the number of jobs added to implement the Federal Clean Air Act, as amended.					
5. Personnel and other costs associated with complying with the Clean Air Act, as amended, not included above.					
<b>Total</b>					

REMARKS



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
AIR POLLUTION CONTROL PROGRAM

**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**DRY CLEANER - NON-CHLORINATED AND PETROLEUM BASED SOLVENTS**

FIPS COUNTY NO.	PLANT NO.	COUNTY	EMISSION UNIT NO.	SCC	SEG. NO.	YEAR OF DATA
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**1. DRY CLEANER INFORMATION**

FACILITY NAME	CONTACT PERSON NAME/TITLE	PHONE NUMBER WITH AREA CODE	FAX NUMBER WITH AREA CODE
STREET ADDRESS	CITY	STATE	ZIP CODE +4
MAILING ADDRESS (IF DIFFERENT FROM ABOVE)	CITY	STATE	ZIP CODE +4

**2. PARENT COMPANY INFORMATION**

PARENT COMPANY NAME	OWNER'S PHONE NUMBER WITH AREA CODE
STREET ADDRESS, P.O. BOX OR ROUTE NUMBER	FAX NUMBER WITH AREA CODE
CITY	STATE ZIP CODE +4

**3. MACHINE INFORMATION**

NUMBER OF DRY TO DRY MACHINES	NUMBER OF TRANSFER MACHINES	TOTAL COMBINED DRYER CAPACITY Lbs.
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**4. SOLVENT DETAIL**

SOLVENT TYPE (CHECK ONE)  
 Stoddard     Other (specify):

Calculate Solvent Use	Non-Chlorinated (Non-perc)
Gallons on hand from previous year	
Gallons brought on-site during calendar year (+)	
Unused gallons transferred off-site (-)	
Gallons on hand at end of calendar year (-)	
<b>(a) Total gallons used during calendar year (=)</b>	

**5. CALCULATE GALLONS SOLVENT SHIPPED AS WASTE**

Number of Filters	×	Conversion Factor (Default = 0.1)	=	(b)	Gallons of Sludge	×	0.1	=	(c)
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**6. CALCULATE AIR EMISSIONS FEE**

$\frac{[a-b-c] \times \text{Solvent Density}}{2,000 \text{ pounds per ton}}$	Solvent Density lbs./gal. Stoddard: 6.316    Other:	1.	Tons/Yr.
One ton minimum used to calculate fees (See instructions for current fee schedule).	Tons/Yr. (rounded to the nearest whole number) × Emission Fee	2.	\$

**7. CERTIFICATION**

The undersigned certifies that they have personally examined and are familiar with the information and statements contained herein and further certifies they believe this information is true, accurate and complete. The undersigned certifies that knowingly making a false statement or misrepresenting the facts presented in this document is a violation of state law.

PRINTED NAME AND TITLE OF PERSON COMPLETING FORM	SIGNATURE OF PERSON COMPLETING FORM	DATE
PRINTED NAME AND TITLE OF AUTHORIZED COMPANY REPRESENTATIVE	SIGNATURE OF AUTHORIZED COMPANY REPRESENTATIVE	DATE

**CHECK INFORMATION** **OFFICE USE ONLY**

EMISSION FEE	CHECK AMOUNT	CHECK DATE	CHECK NO.	LOGGED IN BY	DATE RECEIVED
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