



AES-01

**AIR EMISSION STATEMENT CERTIFICATION**

State Form 52052 (3-05)



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality  
 Technical Support and Modeling Section - Mail Code 61-51  
 100 N. Senate Avenue  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
<http://www.emissions.IN.gov/>

**Instructions:**

- This is a required form for each air emission statement as well as any modifications.
- The certification supplied with a source's permit may be used in lieu of this form
- "Responsible Official" has the same meaning as defined in 326 IAC (34), and is usually designated in the General Information section of the permit.

**Part A: Contact Information**

Part A is intended to provide basic information about the company submitting an Air Emission Statement and information on the Air Emission Statement preparer in case there is a question about the report.

1. Company Name: Valero Renewable Fuels Co LLC dba Valer		2. Source ID: 1812900051	
3. Mailing Address: 7201 Port Rd.			
City: Mount Vernon		State: IN	ZIP Code: 47620
4. Name of Emission Statement Preparer: Mark		Mielke	
5. Title of Emission Statement Preparer (optional): Senior Environmental Specialist			
6. Telephone Number: (269)-355-3738		7. Facsimile Number: (optional):	
8. Electronic Mail Address (optional): mjm@barr.com			

**Part B: Emissions Summary**

Part B is intended to aid in the review of data and to collect information about billable hazardous air pollutants.

Emissions Statement Pollutants (Plant Wide)	Tons Emitted
Ammonia	5.5504
Carbon Monoxide (CO)	42.2700
Condensable Particulate Matter (PM-CON)	9.2489
Filterable Particulate Matter <10 Microns (PM10-FIL)	127.4930
Lead (PB)	0.0003
Nitrogen Dioxide (NO2)	67.9630
Primary PM2.5, Filterable Portion Only	123.9304
Sulfur Dioxide (SO2)	4.4270
Volatile Organic Compounds (VOC)	65.1068
Part 70 Permit Billable Hazardous Air Pollutants (Plant Wide)	Tons Emitted
No Billable Hazardous Air Pollutants reported!	0.0000

**Part C: Signature of Responsible Official**

I hereby certify that the information in this emission statement is accurate based on reasonable estimates using data available to the preparer and on a reasonable inquiry into records and persons responsible for the operation of the source, and is true, accurate, and complete.

Chris Rhea

Name of Responsible Official (typed or printed)

Signature of Responsible Official

Plant Manager

Title of Responsible Official

6/21/24

Date (month, day, year)

**Facility Emission Detail****Valero Renewable Fuels Co LLC dba Valer****Plant ID:1812900051****Report for 2023****Location: 7201 Port Rd,Mount Vernon,476208521****NAICS: 325193 Ethyl Alcohol Manufacturing**

<b>Facility Emissions Overview</b>		
<b>Pollutant</b>	<b>Pollutant Description</b>	<b>Emissions (Tons)</b>
NH3	Ammonia	5.5504
CO	Carbon Monoxide	42.27
7439921	Lead	0.0003
NOX	Nitrogen Oxides	67.963
PM-CON	Primary PM Condensable Only (All Less Than 1 Micron)	9.2489
PM10-FIL	Primary PM10, Filterable Portion Only	127.4930
PM25-FIL	Primary PM2.5, Filterable Portion Only	123.9304
SO2	Sulfur Dioxide	4.427
VOC	Volatile Organic Compounds	65.1068

# Facility Emission Detail

Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID: C-6a</b>		<b>Group Description:C-6a RTO #1</b>		
<b>Percent Quarterly Throughput</b>				
<b>Winter: 22</b>		<b>Spring: 35</b>		<b>Summer: 22</b>
				<b>Fall: 21</b>
<b>Days Per Week: 7</b>		<b>Weeks Per Year: 52</b>		<b>Hours Per Day: 24</b>
				<b>Hours Per Year: 8381</b>
<b>Process ID: C-6a</b>		<b>Process Description: C-6a RTO #1</b>		
<b>SCC:</b>	10200602	<b>Stack:</b>	S-6A	
	Industrial	<b>Description:</b>	S-6A C-06A RTO 1 Stack	
	Natural Gas	<b>Stack Type:</b>	Vertical	
	10-100 Million Btu/hr	<b>Height:</b>	90	
<b>Heat Content:</b>	0	<b>Diameter:</b>	5.6	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	286	
<b>Ash Content:</b>	0	<b>Velocity:</b>	54.2	
<b>Throughput:</b>	697 Million Cubic Feet	<b>Gas Flow:</b>	80512	
<b>Material:</b>	Natural Gas	<b>Input/Output:</b>	Process Material Used (Input)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
NOX	Stack Test	0	0	27.45
7439921	EPA Emission Factor	0.0005	0	0.0002
SO2	Stack Test	0	0	0.67
VOC	Stack Test	0	0	4.4
PM10-FIL	Stack Test	0	0	53.43
PM25-FIL	Stack Test	0	0	53.43
PM-CON	EPA Emission Factor	5.7	0	1.9864
NH3	EPA Emission Factor	3.2	0	1.1152
CO	Stack Test	0	0	18.94

# Facility Emission Detail

Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> C-6b R		<b>Group Description:</b> C-6b RTO #2		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 22		<b>Spring:</b> 35		<b>Summer:</b> 22
				<b>Fall:</b> 21
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> C-6b		<b>Process Description:</b> C-6b RTO #2		
<b>SCC:</b>	10200602	<b>Stack:</b>	S-6B	
	Industrial	<b>Description:</b>	S-6B C-06B RTO 2 Stack	
	Natural Gas	<b>Stack Type:</b>	Vertical	
	10-100 Million Btu/hr	<b>Height:</b>	90	
<b>Heat Content:</b>	0	<b>Diameter:</b>	5.6	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	360	
<b>Ash Content:</b>	0	<b>Velocity:</b>	54.8	
<b>Throughput:</b>	697 Million Cubic Feet	<b>Gas Flow:</b>	81403	
<b>Material:</b>	Natural Gas	<b>Input/Output:</b>	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	EPA Emission Factor	3.2	0	1.1152
CO	Stack Test	0	0	23.3
NOX	Stack Test	0	0	26.4
7439921	EPA Emission Factor	0.0005	0	0.0002
SO2	Stack Test	0	0	2.137
VOC	Stack Test	0	0	21.33
PM10-FIL	Stack Test	0	0	44.059
PM25-FIL	Stack Test	0	0	44.059
PM-CON	EPA Emission Factor	5.7	0	1.9864

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> EP-01		<b>Group Description:</b> EP-01 A & B Grain Receiving Baghouse		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 29		<b>Spring:</b> 26		<b>Summer:</b> 27
				<b>Fall:</b> 18
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> 01		<b>Process Description:</b> EP-01 Delivery of grain to facility via truck or rail.		
<b>SCC:</b>	30200771	<b>Stack:</b>	S-1A	
	Food and Agriculture	<b>Description:</b>	S-1A C-01A Grain Receiving Stack	
	Grain Millings	<b>Stack Type:</b>	Vertical	
	Rice: Grain Receiving	<b>Height:</b>	50	
<b>Heat Content:</b>	0	<b>Diameter:</b>	2.8	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	97	
<b>Ash Content:</b>	0	<b>Velocity:</b>	74.83	
<b>Throughput:</b>	927935 Tons	<b>Gas Flow:</b>	28307	
<b>Material:</b>	Grain	<b>Input/Output:</b>	Process Material Used (Input)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM25-FIL	Stack Test	0	0	6.25
PM10-FIL	Stack Test	0	0	6.25
<b>Group ID:</b> EP-01C		<b>Group Description:</b> EP-01C - GRAIN RECEIVING		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 29		<b>Spring:</b> 26		<b>Summer:</b> 27
				<b>Fall:</b> 18
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> P41006		<b>Process Description:</b> Grain Receiving 3		
<b>SCC:</b>	30200605	<b>Stack:</b>	S-1C	
	Food and Agriculture	<b>Description:</b>	S-1C GRAIN RECEIVING 3 BAGHOUSE	
	Feed and Grain Country Elevators	<b>Stack Type:</b>	Vertical	
	Unloading (Receiving)	<b>Height:</b>	10	
<b>Heat Content:</b>	0	<b>Diameter:</b>	3	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	72	
<b>Ash Content:</b>	0	<b>Velocity:</b>	64	
<b>Throughput:</b>	927935 Tons	<b>Gas Flow:</b>	27000	
<b>Material:</b>	Grain	<b>Input/Output:</b>	Process Material Used (Input)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM10-FIL	Stack Test	0	0	2.43
PM25-FIL	Stack Test	0	0	2.43

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> EP-02		<b>Group Description:</b> EP-02 Corn Storage Silos & Conveyors		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 29		<b>Spring:</b> 26		<b>Summer:</b> 27
				<b>Fall:</b> 18
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> P		<b>Process Description:</b> NewProcess: Please make sure you update Process-Detail		
<b>SCC:</b>	30200540	<b>Stack:</b>	Fugiti	
	Food and Agriculture	<b>Description:</b>	FS002 - GRAIN RECEIVING FUGITIVES	
	Feed and Grain Terminal Elevators	<b>Stack Type:</b>	Fugitive	
	Storage Bin Vents	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	927935 Tons	<b>Gas Flow:</b>	0	
<b>Material:</b>	Grain	<b>Input/Output:</b>	Process Material Used (Input)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM10-FIL	EPA Emission Factor	0.0063	0	2.9230
PM25-FIL	EPA Emission Factor	0.0011	0	0.5104
<b>Group ID:</b> EP-03		<b>Group Description:</b> EP-03 Grain Scalper and Surge Bin		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 29		<b>Spring:</b> 26		<b>Summer:</b> 27
				<b>Fall:</b> 18
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> 01		<b>Process Description:</b> Grain Scalper and Surge Bin		
<b>SCC:</b>	30200744	<b>Stack:</b>	S-1B	
	Food and Agriculture	<b>Description:</b>	S-1B C-1B Grain Scalper & Surge Bin	
	Grain Millings	<b>Stack Type:</b>	Vertical	
	Dry Corn Milling: Cleaning House	<b>Height:</b>	50	
<b>Heat Content:</b>	0	<b>Diameter:</b>	1.4	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	98	
<b>Ash Content:</b>	0	<b>Velocity:</b>	116.17	
<b>Throughput:</b>	927935 Tons	<b>Gas Flow:</b>	10987	
<b>Material:</b>	Grain	<b>Input/Output:</b>	Process Material Used (Input)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM10-FIL	Stack Test	0	0	1.02
PM25-FIL	Stack Test	0	0	1.02

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> EP-05		<b>Group Description:</b> EP-05 Hammermill 1		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 29		<b>Spring:</b> 26		<b>Summer:</b> 27
				<b>Fall:</b> 18
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> EP-05		<b>Process Description:</b> Milling grain to prepare for fermentation		
<b>SCC:</b>	30200748	<b>Stack:</b>	S-2A	
	Food and Agriculture	<b>Description:</b>	S-2A C-02A Hammermill 1 Stack	
	Grain Millings	<b>Stack Type:</b>	Vertical	
	Dry Corn Milling: Grinding	<b>Height:</b>	45	
<b>Heat Content:</b>	0	<b>Diameter:</b>	1.4	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	93	
<b>Ash Content:</b>	0	<b>Velocity:</b>	94.55	
<b>Throughput:</b>	927935 Tons	<b>Gas Flow:</b>	8942	
<b>Material:</b>	Corn	<b>Input/Output:</b>	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Stack Test	0	99	0.62
PM25-FIL	Stack Test	0	99	0.62
<b>Group ID:</b> EP-06		<b>Group Description:</b> Ep-6 Hammermill 2		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 29		<b>Spring:</b> 26		<b>Summer:</b> 27
				<b>Fall:</b> 18
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> EP-06		<b>Process Description:</b> Milling grain to prepare for fermentation		
<b>SCC:</b>	30200748	<b>Stack:</b>	S-2B	
	Food and Agriculture	<b>Description:</b>	S-2B C-C02B Hammermill 2 Stack	
	Grain Millings	<b>Stack Type:</b>	Vertical	
	Dry Corn Milling: Grinding	<b>Height:</b>	45	
<b>Heat Content:</b>	0	<b>Diameter:</b>	1.4	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	93	
<b>Ash Content:</b>	0	<b>Velocity:</b>	94.55	
<b>Throughput:</b>	927935 Tons	<b>Gas Flow:</b>	8942	
<b>Material:</b>	Product	<b>Input/Output:</b>	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Stack Test	0	99	0.62
PM10-FIL	Stack Test	0	99	0.62

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> EP-07		<b>Group Description:</b> EP-07 Hammermill 3		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 29		<b>Spring:</b> 26		<b>Summer:</b> 27
				<b>Fall:</b> 18
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> EP-07		<b>Process Description:</b> Milling grain to prepare for fermentation		
<b>SCC:</b>	30200748	<b>Stack:</b>	C-09	
	Food and Agriculture	<b>Description:</b>	C-09 Flare	
	Grain Millings	<b>Stack Type:</b>	Vertical	
	Dry Corn Milling: Grinding	<b>Height:</b>	30	
<b>Heat Content:</b>	0	<b>Diameter:</b>	5.6	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	727	
<b>Ash Content:</b>	0	<b>Velocity:</b>	7.3	
<b>Throughput:</b>	927935 Tons	<b>Gas Flow:</b>	10788	
<b>Material:</b>	Corn	<b>Input/Output:</b>	Process Material Produced (Outut)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM10-FIL	Stack Test	0	99	0.62
PM25-FIL	Stack Test	0	99	0.62
<b>Group ID:</b> EP-08		<b>Group Description:</b> EP-08 Hammermill 4		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 29		<b>Spring:</b> 26		<b>Summer:</b> 27
				<b>Fall:</b> 18
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> EP-08		<b>Process Description:</b> Milling grain to prepare for fermentation		
<b>SCC:</b>	30200748	<b>Stack:</b>	S-2D	
	Food and Agriculture	<b>Description:</b>	S-2D C-02D Hammermill 4 Stack	
	Grain Millings	<b>Stack Type:</b>	Vertical	
	Dry Corn Milling: Grinding	<b>Height:</b>	45	
<b>Heat Content:</b>	0	<b>Diameter:</b>	1.4	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	93	
<b>Ash Content:</b>	0	<b>Velocity:</b>	94.55	
<b>Throughput:</b>	927935 Tons	<b>Gas Flow:</b>	8942	
<b>Material:</b>	Corn	<b>Input/Output:</b>	Process Material Produced (Outut)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM10-FIL	Stack Test	0	99	0.62
PM25-FIL	Stack Test	0	99	0.62



# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> EP-09		<b>Group Description:</b> EP-09A&B - DDGS Reclaim Conveyor #1 & #2		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 25		<b>Spring:</b> 25		<b>Summer:</b> 25
				<b>Fall:</b> 25
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> P		<b>Process Description:</b> NewProcess: Please make sure you update Process-Detail		
<b>SCC:</b>	64633020	<b>Stack:</b>	C-09	
	Update SCC	<b>Description:</b>	C-09 Flare	
	Update SCC	<b>Stack Type:</b>	Vertical	
	Update SCC	<b>Height:</b>	30	
<b>Heat Content:</b>	0	<b>Diameter:</b>	5.6	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	727	
<b>Ash Content:</b>	0	<b>Velocity:</b>	7.3	
<b>Throughput:</b>	0 Tons	<b>Gas Flow:</b>	10788	
<b>Material:</b>	Product	<b>Input/Output:</b>	Process Material Produced (Output)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM25-FIL	Stack Test	0	99	0.64
PM10-FIL	Stack Test	0	99	0.64
<b>Group ID:</b> EP09e		<b>Group Description:</b> EP-09 DDGS Storage Conveyor-Loadout (C-8)		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 25		<b>Spring:</b> 25		<b>Summer:</b> 25
				<b>Fall:</b> 25
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> P41005		<b>Process Description:</b> DDGS Storage-Conveyor Loadout		
<b>SCC:</b>	30205050	<b>Stack:</b>	S-8	
	Food and Agriculture	<b>Description:</b>	S-8 C-08 DDGS Conveyor Storage & Loadout	
	Ethanol Production	<b>Stack Type:</b>	Vertical	
	DDGS Loadout to Trucks	<b>Height:</b>	18	
<b>Heat Content:</b>	0	<b>Diameter:</b>	1.5	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	90	
<b>Ash Content:</b>	0	<b>Velocity:</b>	57.48	
<b>Throughput:</b>	254487 Tons	<b>Gas Flow:</b>	6095	
<b>Material:</b>	Product	<b>Input/Output:</b>	Process Material Produced (Output)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM10-FIL	Stack Test	0	99	0.22
PM25-FIL	Stack Test	0	99	0.04

# Facility Emission Detail

**Valero Renewable Fuels Co LLC dba Valer**

**Plant ID:1812900051**

**Report for 2023**

**Location: 7201 Port Rd,Mount Vernon,476208521**

**NAICS: 325193 Ethyl Alcohol Manufacturing**

<b>Group ID: EP-15</b>		<b>Group Description: Fermentation CO2 Scrubber</b>		
<b>Percent Quarterly Throughput</b>				
<b>Winter: 29</b>	<b>Spring: 26</b>	<b>Summer: 27</b>	<b>Fall: 18</b>	
<b>Days Per Week: 7</b>	<b>Weeks Per Year: 52</b>	<b>Hours Per Day: 24</b>	<b>Hours Per Year: 8381</b>	
<b>Process ID: EP-15a</b>		<b>Process Description: Fermentation of sugar to ethanol and CO2</b>		
<b>SCC:</b>	30205011	<b>Stack:</b>	S-5	
	Food and Agriculture	<b>Description:</b>	S-5 C-05A CO2 Scrubber Stack	
	Ethanol Production	<b>Stack Type:</b>	Vertical	
	Fermentation	<b>Height:</b>	45	
<b>Heat Content:</b>	0	<b>Diameter:</b>	3.4	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	73	
<b>Ash Content:</b>	0	<b>Velocity:</b>	24.35	
<b>Throughput:</b>	924935 Tons	<b>Gas Flow:</b>	13396	
<b>Material:</b>	Corn	<b>Input/Output:</b>	Process Material Produced (Outut)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
VOC	Stack Test	0	99	11.14
PM10-FIL	Stack Test	0	0	1.83
PM25-FIL	Stack Test	0	0	1.83

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> EP-24		<b>Group Description:</b> EP-24 & 25 Ethanol Loadout Flare		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 26		<b>Spring:</b> 24		<b>Summer:</b> 26
				<b>Fall:</b> 24
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> EP-24a		<b>Process Description:</b> Loadout Flare Process Gas Combustion		
<b>SCC:</b>	30600903	<b>Stack:</b>	C-09	
	Petroleum Industry	<b>Description:</b>	C-09 Flare	
	Flares	<b>Stack Type:</b>	Vertical	
	Natural Gas	<b>Height:</b>	30	
<b>Heat Content:</b>	0	<b>Diameter:</b>	5.6	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	727	
<b>Ash Content:</b>	0	<b>Velocity:</b>	7.3	
<b>Throughput:</b>	106147732 Gallons	<b>Gas Flow:</b>	10788	
<b>Material:</b>	Ethanol	<b>Input/Output:</b>	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	Manufacturer Specification	0	0	0.4
CO	Manufacturer Specification	0	0	0.03
VOC	Stack Test	0	99	0.002
PM25-FIL	Stack Test	0	0	0.008
PM10-FIL	Stack Test	0	0	0.008

# Facility Emission Detail

**Valero Renewable Fuels Co LLC dba Valer**

**Plant ID:1812900051**

**Report for 2023**

**Location: 7201 Port Rd,Mount Vernon,476208521**

**NAICS: 325193 Ethyl Alcohol Manufacturing**

<b>Group ID: EP-26</b>		<b>Group Description:EP-26 Boiler 1</b>		
<b>Percent Quarterly Throughput</b>				
<b>Winter: 22</b>	<b>Spring: 35</b>	<b>Summer: 22</b>	<b>Fall: 21</b>	
<b>Days Per Week: 7</b>	<b>Weeks Per Year: 52</b>	<b>Hours Per Day: 24</b>	<b>Hours Per Year: 8381</b>	
<b>Process ID: EP-26</b>		<b>Process Description: Steam Production</b>		
<b>SCC:</b>	10200602	<b>Stack:</b>	S-13 1	
	Industrial	<b>Description:</b>	S-13 EP-26 Boiler 1 Stack	
	Natural Gas	<b>Stack Type:</b>	Vertical	
	10-100 Million Btu/hr	<b>Height:</b>	45	
<b>Heat Content:</b>	0	<b>Diameter:</b>	3	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	326	
<b>Ash Content:</b>	0	<b>Velocity:</b>	80.8	
<b>Throughput:</b>	905148 Million BTUs	<b>Gas Flow:</b>	34625	
<b>Material:</b>	Natural Gas	<b>Input/Output:</b>	Process Material Used (Input)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
NH3	Engineering Judgement	0	0	0.83
7439921	Engineering Judgement	0	0	0
CO	Stack Test	0	0	0
NOX	Stack Test	0	0	2.901
PM10-FIL	Stack Test	0	0	1.319
PM25-FIL	Stack Test	0	0	1.319
SO2	Stack Test	0	0	0.155
VOC	Stack Test	0	0	0.527
PM-CON	State/Local Speciation Profile	0	0	1.319

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> EP-27		<b>Group Description:</b> EP-27 Boiler 2		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 22		<b>Spring:</b> 35		<b>Summer:</b> 22
				<b>Fall:</b> 21
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> EP-27		<b>Process Description:</b> Steam Production		
<b>SCC:</b>	10200602	<b>Stack:</b>	S-13 2	
	Industrial	<b>Description:</b>	S-13 EP-27 Boiler 2 Stack	
	Natural Gas	<b>Stack Type:</b>	Vertical	
	10-100 Million Btu/hr	<b>Height:</b>	45	
<b>Heat Content:</b>	0	<b>Diameter:</b>	3	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	326	
<b>Ash Content:</b>	0	<b>Velocity:</b>	80.8	
<b>Throughput:</b>	905148 Million BTUs	<b>Gas Flow:</b>	34625	
<b>Material:</b>	Natural Gas	<b>Input/Output:</b>	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	Engineering Judgement	0	0	0.83
7439921	Engineering Judgement	0	0	0
CO	Stack Test	0	0	0
NOX	Stack Test	0	0	3.956
PM10-FIL	Stack Test	0	0	1.319
PM25-FIL	Stack Test	0	0	1.319
SO2	Stack Test	0	0	0.155
VOC	Stack Test	0	0	0.527
PM-CON	State/Local Speciation Profile	0	0	1.319

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> EP-28		<b>Group Description:</b> EP-28 Boiler 3		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 22		<b>Spring:</b> 35		<b>Summer:</b> 22
				<b>Fall:</b> 21
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> EP-28		<b>Process Description:</b> Steam Production		
<b>SCC:</b>	10200602	<b>Stack:</b>	S-13 3	
	Industrial	<b>Description:</b>	S-13 EP-28 Boiler 3 Stack	
	Natural Gas	<b>Stack Type:</b>	Vertical	
	10-100 Million Btu/hr	<b>Height:</b>	45	
<b>Heat Content:</b>	0	<b>Diameter:</b>	3	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	326	
<b>Ash Content:</b>	0	<b>Velocity:</b>	80.8	
<b>Throughput:</b>	905148 Million BTUs	<b>Gas Flow:</b>	34625	
<b>Material:</b>	Natural Gas	<b>Input/Output:</b>	Process Material Used (Input)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
CO	Stack Test	0	0	0
NH3	Engineering Judgement	0	0	0.83
7439921	Engineering Judgement	0	0	0
NOX	Stack Test	0	0	3.428
PM10-FIL	Stack Test	0	0	1.319
PM25-FIL	CEMS - Continuous Emission Monitoring System	0	0	1.319
SO2	Stack Test	0	0	0.155
VOC	Stack Test	0	0	0.527
PM-CON	State/Local Speciation Profile	0	0	1.319

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> EP-29		<b>Group Description:</b> EP-29 Boiler 4		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 22		<b>Spring:</b> 35		<b>Summer:</b> 22
				<b>Fall:</b> 21
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> EP-29		<b>Process Description:</b> Steam Production		
<b>SCC:</b>	10200602	<b>Stack:</b>	S-13 4	
	Industrial	<b>Description:</b>	S-13 EP-29 Boiler 4 Stack	
	Natural Gas	<b>Stack Type:</b>	Vertical	
	10-100 Million Btu/hr	<b>Height:</b>	45	
<b>Heat Content:</b>	0	<b>Diameter:</b>	3	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	326	
<b>Ash Content:</b>	0	<b>Velocity:</b>	80.8	
<b>Throughput:</b>	905148 Million BTUs	<b>Gas Flow:</b>	34625	
<b>Material:</b>	Natural Gas	<b>Input/Output:</b>	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	Engineering Judgement	0	0	0.83
7439921	Engineering Judgement	0	0	0
CO	Stack Test	0	0	0
NOX	Stack Test	0	0	3.428
PM10-FIL	Stack Test	0	0	1.319
PM25-FIL	Stack Test	0	0	1.319
SO2	Stack Test	0	0	0.155
PM-CON	State/Local Speciation Profile	0	0	1.319

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> FS002		<b>Group Description:</b> FS002 Uncaptured Grain Receiving Fugitives		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 29		<b>Spring:</b> 26		<b>Summer:</b> 27
				<b>Fall:</b> 18
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> FS002		<b>Process Description:</b> Fugitive dust from grain receiving		
<b>SCC:</b>	30200741	<b>Stack:</b>	Fugiti	
	Food and Agriculture	<b>Description:</b>	FS002 - GRAIN RECEIVING FUGITIVES	
	Grain Millings	<b>Stack Type:</b>	Fugitive	
	Dry Corn Milling: Grain Receiving	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	927933 Tons	<b>Gas Flow:</b>	0	
<b>Material:</b>	Grain	<b>Input/Output:</b>	Process Material Used (Input)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM10-FIL	Engineering Judgement	0	0	0.181
PM25-FIL	Stack Test	0	0	0.181
<b>Group ID:</b> FS003		<b>Group Description:</b> FS003 Uncaptured DDGS Storage Building Fugitives		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 25		<b>Spring:</b> 25		<b>Summer:</b> 25
				<b>Fall:</b> 25
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> FS003		<b>Process Description:</b> Fugitive Dust from DDGS storage		
<b>SCC:</b>	30200803	<b>Stack:</b>	FS003	
	Food and Agriculture	<b>Description:</b>	FS003 - DDGS STORAGE BUILDING FUGITIVE	
	Feed Manufacture	<b>Stack Type:</b>	Fugitive	
	Shipping	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	254487 Tons	<b>Gas Flow:</b>	0	
<b>Material:</b>	Grain	<b>Input/Output:</b>	Process Material Used (Input)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM10-FIL	Engineering Judgement	0	0	0.005
PM25-FIL	Stack Test	0	0	0.005



## Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> FS004		<b>Group Description:</b> FS004 Uncaptured DDGS Loading Fugitives		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 25		<b>Spring:</b> 25		<b>Summer:</b> 25
				<b>Fall:</b> 25
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> FS004		<b>Process Description:</b> Fugitive dust from DDGS loadout		
<b>SCC:</b>	30200803	<b>Stack:</b>	C-09	
	Food and Agriculture	<b>Description:</b>	C-09 Flare	
	Feed Manufacture	<b>Stack Type:</b>	Vertical	
	Shipping	<b>Height:</b>	30	
<b>Heat Content:</b>	0	<b>Diameter:</b>	5.6	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	727	
<b>Ash Content:</b>	0	<b>Velocity:</b>	7.3	
<b>Throughput:</b>	927933 Tons	<b>Gas Flow:</b>	10788	
<b>Material:</b>	Grain	<b>Input/Output:</b>	Process Material Used (Input)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM10-FIL	Engineering Judgement	0	0	0.001
PM25-FIL	Engineering Judgement	0	0	0.001
<b>Group ID:</b> FS005		<b>Group Description:</b> FS005 Fugitive VAC (LDAR)		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 26		<b>Spring:</b> 24		<b>Summer:</b> 26
				<b>Fall:</b> 24
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> FS005		<b>Process Description:</b> Fugitive VOC from LDAR		
<b>SCC:</b>	30205091	<b>Stack:</b>	FS005	
	Food and Agriculture	<b>Description:</b>	FS005 Fugitive VOC (LDAR)	
	Ethanol Production	<b>Stack Type:</b>	Fugitive	
	Equipment Leaks	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	8381 Hour	<b>Gas Flow:</b>	0	
<b>Material:</b>	Product	<b>Input/Output:</b>	Process Material Produced (Output)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
VOC	Engineering Judgement	0	0	0.66

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> FS006		<b>Group Description:</b> FS006 Fugitive VOC (Wet DGS)		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 25		<b>Spring:</b> 25		<b>Summer:</b> 25
				<b>Fall:</b> 25
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> FS006		<b>Process Description:</b> Fugitive VOC from Wet DGS plies		
<b>SCC:</b>	30205011	<b>Stack:</b>	FS006	
	Food and Agriculture	<b>Description:</b>	FS006 Fugitive VOC (WetDGS)	
	Ethanol Production	<b>Stack Type:</b>	Fugitive	
	Fermentation	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	254487 Tons	<b>Gas Flow:</b>	0	
<b>Material:</b>	Product	<b>Input/Output:</b>	Process Material Produced (Outut)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
VOC	Engineering Judgement	0	0	0.0038
<b>Group ID:</b> TK001		<b>Group Description:</b> TK001 200 Proof Ethanol Tank 1		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 26		<b>Spring:</b> 24		<b>Summer:</b> 26
				<b>Fall:</b> 24
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8760
<b>Process ID:</b> TK001		<b>Process Description:</b> Undenatured Ethanol Storage		
<b>SCC:</b>	40715810	<b>Stack:</b>	S-10	
	Organic Chemical Storage	<b>Description:</b>	S-10 TK Fugitive Emissions from Tanks	
	Floating Roof Tanks - Alcohols	<b>Stack Type:</b>	Fugitive	
	Ethyl Alcohol: Working Loss	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	33806764 Gallons	<b>Gas Flow:</b>	0	
<b>Material:</b>	Ethanol	<b>Input/Output:</b>	Process Material Produced (Outut)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
VOC	Engineering Judgement	0	0	0.24

## Facility Emission Detail

### Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> TK002		<b>Group Description:</b> TK002 200 Proof Ethanol Tank 2		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 26		<b>Spring:</b> 24		<b>Summer:</b> 26
				<b>Fall:</b> 24
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8760
<b>Process ID:</b> TK002		<b>Process Description:</b> Undenatured Ethanol Storage		
<b>SCC:</b>	40715810	<b>Stack:</b>	S-10	
	Organic Chemical Storage	<b>Description:</b>	S-10 TK Fugitive Emissions from Tanks	
	Floating Roof Tanks - Alcohols	<b>Stack Type:</b>	Fugitive	
	Ethyl Alcohol: Working Loss	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	33806764 Gallons	<b>Gas Flow:</b>	0	
<b>Material:</b>	Ethanol	<b>Input/Output:</b>	Process Material Produced (Outut)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
VOC	Engineering Judgement	0	0	0.24
<b>Group ID:</b> TK003		<b>Group Description:</b> TK003 200 Proof Ethanol Tank 3		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 26		<b>Spring:</b> 24		<b>Summer:</b> 26
				<b>Fall:</b> 24
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8760
<b>Process ID:</b> TK003		<b>Process Description:</b> Undenatured Ethanol Storage		
<b>SCC:</b>	40715810	<b>Stack:</b>	C-09	
	Organic Chemical Storage	<b>Description:</b>	C-09 Flare	
	Floating Roof Tanks - Alcohols	<b>Stack Type:</b>	Vertical	
	Ethyl Alcohol: Working Loss	<b>Height:</b>	30	
<b>Heat Content:</b>	0	<b>Diameter:</b>	5.6	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	727	
<b>Ash Content:</b>	0	<b>Velocity:</b>	7.3	
<b>Throughput:</b>	33806764 Gallons	<b>Gas Flow:</b>	10788	
<b>Material:</b>	Ethanol	<b>Input/Output:</b>	Process Material Produced (Outut)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
SO2	Stack Test	0	0	1
VOC	Engineering Judgement	0	0	0.24

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> TK004		<b>Group Description:</b> TK004 Denaturant Tank		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 26		<b>Spring:</b> 24		<b>Summer:</b> 26
				<b>Fall:</b> 24
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8760
<b>Process ID:</b> TK004		<b>Process Description:</b> Denaturant Storage		
<b>SCC:</b>	40400231	<b>Stack:</b>	S-10	
	Petroleum Liquids Storage (non-Refinery)	<b>Description:</b>	S-10 TK Fugitive Emissions from Tanks	
	Bulk Plants	<b>Stack Type:</b>	Fugitive	
	Gasoline RVP 13: Standing Loss - Ext. Floating Roof w/ Primary Seal	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	2363720 Gallons	<b>Gas Flow:</b>	0	
<b>Material:</b>	Petroleum Liquid	<b>Input/Output:</b>	Process Material Produced (Outut)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
VOC	Engineering Judgement	0	0	1.69
<b>Group ID:</b> TK005		<b>Group Description:</b> TK005 Denatured Ethanol Tank 1		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 26		<b>Spring:</b> 24		<b>Summer:</b> 26
				<b>Fall:</b> 24
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8760
<b>Process ID:</b> TK005		<b>Process Description:</b> Denatured Ethanol Storage		
<b>SCC:</b>	40715810	<b>Stack:</b>	S-10	
	Organic Chemical Storage	<b>Description:</b>	S-10 TK Fugitive Emissions from Tanks	
	Floating Roof Tanks - Alcohols	<b>Stack Type:</b>	Fugitive	
	Ethyl Alcohol: Working Loss	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	51892006 Gallons	<b>Gas Flow:</b>	0	
<b>Material:</b>	Ethanol	<b>Input/Output:</b>	Process Material Produced (Outut)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
VOC	Engineering Judgement	0	0	0.26

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> TK006		<b>Group Description:</b> TK006 Denatured Ethanol Tank 2		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 26		<b>Spring:</b> 24		<b>Summer:</b> 26
				<b>Fall:</b> 24
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8760
<b>Process ID:</b> TK006		<b>Process Description:</b> Denatured Ethanol Storage		
<b>SCC:</b>	40715810	<b>Stack:</b>	S-10	
	Organic Chemical Storage	<b>Description:</b>	S-10 TK Fugitive Emissions from Tanks	
	Floating Roof Tanks - Alcohols	<b>Stack Type:</b>	Fugitive	
	Ethyl Alcohol: Working Loss	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	51892006 Gallons	<b>Gas Flow:</b>	0	
<b>Material:</b>	Ethanol	<b>Input/Output:</b>	Process Material Produced (Output)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
VOC	Engineering Judgement	0	0	0.26
<b>Group ID:</b> TK007		<b>Group Description:</b> TK007 Corrosion Inhibitor Tank		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 26		<b>Spring:</b> 24		<b>Summer:</b> 26
				<b>Fall:</b> 24
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8760
<b>Process ID:</b> TK007		<b>Process Description:</b> Corrosion Inhibitor Storage		
<b>SCC:</b>	40714698	<b>Stack:</b>	S-10	
	Organic Chemical Storage	<b>Description:</b>	S-10 TK Fugitive Emissions from Tanks	
	Fixed Roof Tanks - Miscellaneous	<b>Stack Type:</b>	Fugitive	
	Specify In Comments: Working Loss	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	0 Gallons	<b>Gas Flow:</b>	0	
<b>Material:</b>	Petroleum Distillate	<b>Input/Output:</b>	Process Material Produced (Output)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
VOC	Engineering Judgement	0	0	0.01

# Facility Emission Detail

## Valero Renewable Fuels Co LLC dba Valer

Plant ID:1812900051

Report for 2023

Location: 7201 Port Rd,Mount Vernon,476208521

NAICS: 325193 Ethyl Alcohol Manufacturing

<b>Group ID:</b> U14924		<b>Group Description:</b> EP-34 DDGS COOLING DRUM BAGHOUSE		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 25		<b>Spring:</b> 25		<b>Summer:</b> 25
				<b>Fall:</b> 25
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> P41003		<b>Process Description:</b> DDGS Cooling Drum Baghouse		
<b>SCC:</b>	30205014	<b>Stack:</b>	S-7C	
	Food and Agriculture	<b>Description:</b>	S-7C DDGS COOLING DRUM BAGHOUSE	
	Ethanol Production	<b>Stack Type:</b>	Vertical	
	DDGS Cooling	<b>Height:</b>	50	
<b>Heat Content:</b>	0	<b>Diameter:</b>	3.81	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	77	
<b>Ash Content:</b>	0	<b>Velocity:</b>	68.57	
<b>Throughput:</b>	254487 Tons	<b>Gas Flow:</b>	46960	
<b>Material:</b>	Product	<b>Input/Output:</b>	Process Material Produced (Outut)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM10-FIL	Stack Test	0	0	5.45
PM25-FIL	Stack Test	0	0	5.45
VOC	Stack Test	0	0	23.05
<b>Group ID:</b> VT		<b>Group Description:</b> VEHICLE TRAFFIC		
<b>Percent Quarterly Throughput</b>				
<b>Winter:</b> 25		<b>Spring:</b> 25		<b>Summer:</b> 25
				<b>Fall:</b> 25
<b>Days Per Week:</b> 7		<b>Weeks Per Year:</b> 52		<b>Hours Per Day:</b> 24
				<b>Hours Per Year:</b> 8381
<b>Process ID:</b> P40898		<b>Process Description:</b> Vehicle Traffic		
<b>SCC:</b>	30205054	<b>Stack:</b>	VEHICL	
	Food and Agriculture	<b>Description:</b>	VEHICLE TRAFFIC	
	Ethanol Production	<b>Stack Type:</b>	Fugitive	
	Hauling on Paved/Unpaved Road	<b>Height:</b>	0	
<b>Heat Content:</b>	0	<b>Diameter:</b>	0	
<b>Sulfur Content:</b>	0	<b>Temperature:</b>	0	
<b>Ash Content:</b>	0	<b>Velocity:</b>	0	
<b>Throughput:</b>	54409 Miles	<b>Gas Flow:</b>	0	
<b>Material:</b>	Product	<b>Input/Output:</b>	Process Material Produced (Outut)	
<b>Pollutant</b>	<b>Emission Method</b>	<b>Emission Factor</b>	<b>Overall Ctrl Efficiency</b>	<b>Emissions(Tons)</b>
PM10-FIL	Engineering Judgement	0	0	1.29
PM25-FIL	Engineering Judgement	0	0	0.32