Facility ID: 75-0912 **Facility:** Sazerac of Tennessee, LLC
Permit: 981922
Date: 4/17/2024
JMRh

75-0912-00: Potential Emissions Summary

Note: Sazerac of Tennessee, LLC doesn't intend to persue a construction permit for the Charcoal Production process (communication dated Feb. 20, 2024)

				Potential Emissions (lbs/hr)						Potential Emissions (tpy)							
Source	Point Description	Fugitive Emission?	One of the 25 Major Source Categories?	PM	SO2	CO	VOC	NO_X	Total HAP	PM	SO2	CO	VOC	NO_X	Total HAP	Federal Applicability	Insignificant Activity?
75-0912-01	Aging Warehouse #1	Yes	No	--	--	--	20.479	--	--	--	--	--	89.700	--	--		No
	Aging Warehouse #2	Yes	No	--	--	--	20.479	--	--	--	--	--	89.700	--	--		No
	Aging Warehouse #3	Yes	No	--	--	--	20.479	--	--	--	--	--	89.700	--	--		No
	Aging Warehouse #4	Yes	No	--	--	--	20.479	--	--	--	--	--	89.700	--	--		No
75-0912-02	Charcoal Production, Open Burning*	Yes	Yes, Charcoal Production	7.650	0.197	63.000	8.550	1.800	0.304	33.507	0.861	275.940	37.449	7.884	1.330		No
75-0912-03	Emergency Fire Pump Engine	No	No	0.052	0.003	0.311	0.057	1.870	--	0.013	0.001	0.078	0.014	0.468	--	NSPS, Subpart IIII NESHAP, Subpart ZZZZ	Yes
	250gal Diesel Tank	Yes	No	--	--	--	--	--	--	--	--	--	0.000	--	--		
75-0912-04	Water Heater #1	No	No	0.037	0.003	0.412	0.027	0.490	0.009	0.163	0.013	1.804	0.118	2.147	0.041		Yes
	Water Heater #2	No	No	0.037	0.003	0.412	0.027	0.490	0.009	0.163	0.013	1.804	0.118	2.147	0.041		
	Water Heater #3	No	No	0.037	0.003	0.412	0.027	0.490	0.009	0.163	0.013	1.804	0.118	2.147	0.041		
	Water Heater #4	No	No	0.037	0.003	0.412	0.027	0.490	0.009	0.163	0.013	1.804	0.118	2.147	0.041		
75-0912-05	500gal Gasoline Dispensing	Yes	No	--	--	--	--	--	--	--	--	--	0.112	--	--	NESHAP, Subpart CCCCCC	Yes
			Totals:	7.851	0.212	64.958	90.633	5.631	0.341	34.173	0.914	283.232	396.847	16.940	1.493		

*Sazerac will not be persuing a charcoal production permit at this time

Facility ID: 75-0912 **Facility:** Sazerac of Tennessee, LLC
Permit: 981922
Date: 4/17/2024
JMRh

75-0912-00: Allowable Emissions Summary

				Allowable Emissions (lbs/hr)						Allowable Emissions (tpy)							
Source	Point Description	Fugitive Emission?	One of the 25 Major Source Categories?	PM	SO2	CO	VOC	NO_X	Total HAP	PM	SO2	CO	VOC	NO_X	Total HAP	Federal Applicability	Insignificant Activity?
75-0912-00*	Entire Facility	N/A	N/A	--	--	--	--	--	--	--	--	XX	--	--	--	N/A	N/A
75-0912-01	Aging Warehouse #1	Yes	No	--	--	--	--	--	--	--	--	--	89.700	--	--		No
	Aging Warehouse #2	Yes	No	--	--	--	--	--	--	--	--	--	89.700	--	--		
	Aging Warehouse #3	Yes	No	--	--	--	--	--	--	--	--	--	89.700	--	--		
	Aging Warehouse #4	Yes	No	--	--	--	--	--	--	--	--	--	89.700	--	--		
75-0912-02	Charcoal Production, Open Burning*	Yes	Yes, Charcoal Production	7.650	0.197	63.000	--	1.800	0.304	1.377	0.035	11.340	1.539	0.324	0.055		No
75-0912-03	Emergency Fire Pump Engine	No	No	--	--	--	--	--	--	--	--	--	--	--	--	NSPS, Subpart IIII NESHAP, Subpart ZZZZ	Yes
	250gal Diesel Tank	Yes	No	--	--	--	--	--	--	--	--	--	--	--	--		
75-0912-04	Water Heater #1	No	No	--	--	--	--	--	--	--	--	--	--	--	--		Yes
	Water Heater #2	No	No	--	--	--	--	--	--	--	--	--	--	--	--		
	Water Heater #3	No	No	--	--	--	--	--	--	--	--	--	--	--	--		
	Water Heater #4	No	No	--	--	--	--	--	--	--	--	--	--	--	--		
75-0912-05	500gal Gasoline Dispensing	Yes	No	--	--	--	--	--	--	--	--	--	--	--	--	NESHAP, Subpart CCCCCC	Yes
			Totals:	7.650	0.197	63.000	0.000	1.800	0.304	1.377	0.035	11.340	360.339	0.324	0.055		

* Since the facility is not persuing a permit for the charcoal production process at this time, the facility will be considered True Minor.
* Sazerac is not persuing a construction permit for the charcoal production process at this time.

358.800

Facility ID: 75-0912 **Facility:** Sazerac of Tennessee, LLC
Permit: 981922
Date: 4/17/2024
JMRh

75-0912-00: Actual Emissions Summary

				Actual Emissions (lbs/hr)						Actual Emissions (tpy)							
Source	Source Description	Fugitive Emission?	One of the 25 Major Source Categories?	PM	SO2	CO	VOC	NO_X	Total HAP	PM	SO2	CO	VOC	NO_X	Total HAP	Federal Applicability	Insignificant Activity?
75-0912-01	Aging Warehouse #1	Yes	No	--	--	--	20.479	--	--	--	--	--	89.700	--	--		No
	Aging Warehouse #2	Yes	No	--	--	--	20.479	--	--	--	--	--	89.700	--	--		
	Aging Warehouse #3	Yes	No	--	--	--	20.479	--	--	--	--	--	89.700	--	--		
	Aging Warehouse #4	Yes	No	--	--	--	20.479	--	--	--	--	--	89.700	--	--		
75-0912-02	Charcoal Production, Open Burning	Yes	Yes, Charcoal Production	7.650	0.197	63.000	8.550	1.800	0.304	1.377	0.035	11.340	1.539	0.324	0.055		No
75-0912-03	Emergency Fire Pump Engine	No	No	0.052	0.003	0.311	0.057	1.870	--	0.013	0.001	0.078	0.014	0.468	--	NSPS, Subpart IIII NESHAP, Subpart ZZZZ	Yes
	250gal Diesel Tank	Yes	No	--	--	--	--	--	--	--	--	--	0.000	--	--		
75-0912-04	Water Heater #1	No	No	0.037	0.003	0.412	0.027	0.490	0.009	0.163	0.013	1.804	0.118	2.147	0.041		Yes
	Water Heater #2	No	No	0.037	0.003	0.412	0.027	0.490	0.009	0.163	0.013	1.804	0.118	2.147	0.041		
	Water Heater #3	No	No	0.037	0.003	0.412	0.027	0.490	0.009	0.163	0.013	1.804	0.118	2.147	0.041		
	Water Heater #4	No	No	0.037	0.003	0.412	0.027	0.490	0.009	0.163	0.013	1.804	0.118	2.147	0.041		
75-0912-05	500gal Gasoline Dispensing	Yes	No	--	--	--	--	--	--	--	--	--	0.112	--	--	NESHAP, Subpart CCCCCC	Yes
			Totals:	7.851	0.212	64.958	90.633	5.631	0.341	2.043	0.088	18.632	360.937	9.380	0.217		

* SoT decided not to proceed with charcoal production (see communication dated Feb. 20, 2024)

Facility ID: 75-0912 **Facility:** Sazerac of Tennessee, LLC
Permit: 981922
Date: 4/17/2024
JMRh

75-0912-01: Four Barrel Aging Warehouses (EU01)

Warehouses:	4	Qty	
Storage Style:	Traditional Rickhouse		
Barrel Capacity:	26,000	bbls	
	53	gal/bbl	
Ethanol Evaporation Losses:	6.9	lbs/bbl/yr	Emission factor from AP-42, Table 9.12.3-1. Assumes barrel capacity of approximately 53 gal. and does not include losses due to soakage

Warehouse ID	Warehouse Type	Barrel Capacity (bbls)	Potential Fugitive VOC Emissions (tpy)
01	Rickhouse	26000	89.7
02	Rickhouse	26000	89.7
03	Rickhouse	26000	89.7
04	Rickhouse	26000	89.7

Facility ID: 75-0912 **Facility:** Sazerac of Tennessee, LLC
Permit: 981922
Date: 4/17/2024
JMRh

75-0912-02: Charcoal Production, Open Burning (EU02)

****SoT decided not to proceed with permitting the charcoal production process (see communication dated Feb. 20, 2024)**

Input Material:	Maplewood		
Batch Time:	1	batch/day	
Max. Batches:	15	batch/yr	
Max Input Rate:	21,600	lbs/day	
	10.8	tons/day	
	162	tpy	Assuming 15 Batches per year
Wood Heating Value:	17.48	MMBtu/ton	Per 40 CFR 98 Table C-1, HHV for wood and wood residuals (dry basis)

Emissions from the Open Burning of Wood and Wood Residuals

Pollutant	Emission Factor (lbs/ton)	Emission Factor (lbs/MMBtu)	PTE (lbs/hr)	PTE (tpy)	Actual Emissions (lbs/hr)	Actual Emissions (tpy)	Allowable Emissions (lbs/hr)	Allowable Emissions (tpy)	
PM	17		7.65	33.507	7.65	1.377	7.65	1.377	AP-42 Section 2.5 Table 2.5-5, Forest Residues
SO2		0.025	0.197	0.861	0.197	0.035	0.197	0.035	AP-42 Section 1.6 Table 1.6-2
CO	140		63	275.94	63	11.34	63	11.34	AP-42 Section 2.5 Table 2.5-5, Forest Residues
NMHC	19		8.55	37.449	8.55	1.539	8.55	1.539	AP-42 Section 2.5 Table 2.5-5, Forest Residues
NOx	4		1.8	7.884	1.8	0.324	1.8	0.324	AP-42 Section 2.5 Table 2.5-5, Forest Residues
Total HAP		3.86E-02	0.304	1.330	0.304	0.055	0.304	0.055	

HAP Compound	CAS #	Emission Factor (lb/MMBtu)
Acenaphthene	83-32-9	9.10E-07
Acenaphthylene	208-96-8	5.00E-06
Acetaldehyde	75-07-0	8.30E-04
Acetophenone	98-86-2	3.20E-09
Acrolein	107-02-8	4.00E-03
Anthracene	120-12-7	3.00E-06
Benzene	71-43-2	4.20E-03
Benzo(a)anthracene	56-55-3	6.50E-08
Benzo(a)pyrene	50-32-8	2.60E-06
Benzo(b)fluoranthene	205-99-2	1.00E-07
Benzo(e)pyrene	192-97-2	2.60E-09
Benzo(g,h,i)perylene	191-24-2	9.30E-08
Benzo(j,k)fluoranthene	207-08-9	1.60E-07
Benzo(k)fluoranthene	207-08-9	3.60E-08
bis(2-Ethylhexyl)phthalate	117-81-7	4.70E-08
Bromomethane	74-83-9	1.50E-05
Carbazole	86-74-8	1.80E-06
Carbon tetrachloride	56-23-5	4.50E-05
Chlorine	7782-50-5	7.90E-04
Chlorobenzene	108-90-7	3.30E-05
Chloroform	67-66-3	2.80E-05
Chloromethane	74-87-3	2.30E-05
2-Chloronaphthalene	91-58-7	2.40E-09
Chrysene	218-01-9	3.80E-08
Decachlorobiphenyl	2051-24-3	2.70E-10
Dibenzo(a,h)anthracene	53-70-3	9.10E-09
1,2-Dichloroethane	107-06-2	2.90E-05
Dichloromethane	75-09-2	2.90E-04
1,2-Dichloropropane	78-87-5	3.30E-05
2,4-Dinitrophenol	51-28-5	1.80E-07
Formaldehyde	50-00-0	4.40E-03
Heptachlorobiphenyl	74472-50-	6.60E-11
Hexachlorobiphenyl	35065-28-	5.50E-10
Hexanal	66-25-1	7.00E-06
Heptachlorodibenzo-p-dioxins	35822-46-	2.00E-09
Heptachlorodibenzo-p-furans	55673-89-	2.40E-10
Hexachlorodibenzo-p-dioxins	57653-85-	1.60E-06
Hexachlorodibenzo-p-furans	57117-44-	2.80E-10
Hydrogen chloride	7647-01-0	1.90E-02
Indeno(1,2,3,c,d)pyrene	193-39-5	8.70E-08
2-Methylnaphthalene	91-57-6	1.60E-07
Naphthalene	91-20-3	9.70E-05
4-Nitrophenol	100-02-7	1.10E-07
Octachlorodibenzo-p-furans	39001-02-	8.80E-11
Pentachlorodibenzo-p-dioxins	40321-76-	1.50E-09
Pentachlorodibenzo-p-furans	57117-31-	4.20E-10
Pentachlorobiphenyl	37680-73-	1.20E-09
Pentachlorophenol	87-86-5	5.10E-08
Perylene	198-55-0	5.20E-10
Phenanthrene	85-01-8	7.00E-06
Phenol	108-95-2	5.10E-05
Propanal (propionaldehyde)	123-38-6	3.20E-05
Pyrene	129-00-0	3.70E-06
Styrene	100-42-5	1.90E-03
2,3,7,8-Tetrachlorodibenzo-p-di	1746-01-6	8.60E-12
Tetrachlorodibenzo-p-dioxins	1746-01-6	4.70E-10
2,3,7,8-Tetrachlorodibenzo-p-fu	51207-31-	9.00E-11
Tetrachlorodibenzo-p-furans	1746-01-6	7.50E-10
Tetrachloroethene	127-18-4	3.80E-05
Toluene	108-88-3	9.20E-04
1,1,1-Trichloroethane	71-55-6	3.10E-05
2,4,6-Trichlorophenol	88-06-2	2.20E-08
Vinyl Chloride	75-01-4	1.80E-05
o-Xylene	95-47-6	2.50E-05
Antimony		7.90E-06
Arsenic		2.20E-05
Beryllium		1.10E-06
Cadmium		4.10E-06
Chromium, total		2.10E-05
Chromium, hexavalent		3.50E-06
Cobalt		6.50E-06
Lead		4.80E-05
Manganese		1.60E-03
Mercury		3.50E-06
Nickel		3.30E-05
Selenium		2.80E-06
Total HAP		**3.86E-02**

HAP Emission Factors from AP-42 Table 1.6-3 and 1.6-4

1200-03-07 Allowable Particulate Matter Calculation

		Units
Material Input Rate[1]:	900	lbs/hr
Exhaust Flow Rate:		CFM
Material Input Rate[1]:	0.45	ton/hr
Emission Flow Rate:	0	dscf/min
Factor (3.59 or 17.31):	3.59	
Exponent (0.62 or 0.16):	0.62	

	Applicable Standard 1200-03-07 [.XX(X)]	PM Emission Rate (lbs/hr)	PM Emission Rate (tpy)	
Table 2 [.03(1)]		2.1882	9.5843	
0.02 gr/dcfm [.04(1)]		0.0000	0.0000	
0.25 gr/dcfm [.04(2)]		0.0000	0.0000	<---

Facility ID: 75-0912 **Facility:** Sazerac of Tennessee, LLC
Permit: E81999
Date: 4/17/2024
JMRh

75-0912-03: Emergency Fire Pump Engine (EU02)

Engine:	John Deere 6068HFC48A (4 Stroke Cycle, 6.8L, V6)	
Model Year:	2017	
Fuel Type:	Diesel	
EPA Certification:	Tier 3	
Operating Hours:	500	hr/yr
Rated Power:	235	kW
	315	bhp
Fuel Consumption:	16.1	gal/hr

Emegency Use Diesel-fired Fire Pump Engine Emissions

Pollutant	Manufacturer Emission Factor (g/kW-hr)	Allowable Emissions (g/kW-hr)	PTE (lbs/hr)	PTE (tpy)	Allowable Emissions (lbs/hr)	Allowable Emissions (tpy)
PM	0.1	0.2	0.052	0.013	0.104	0.026
SO2			0.003	0.001	0.003	0.001
CO	0.6		0.311	0.078	0.311	0.078
HC	0.11		0.057	0.014	0.057	0.014
NOx	3.61		1.870	0.468	1.870	0.468
NMHC + NOx		4			2.072	0.518

For SO_2, 15 ppm maximum sulfur content of fuel. Assume all sulfur converted to SO_2
Every mole of sulfur will create one mole of sulfur dioxide

$$S + O_2 \text{ ---> } SO_2$$

fuel use rate (gal)	7.05 lb	15 lb S	mol S	mol SO_2	64.066 lb SO_2	0.0034018	lb/hr SO_2
hr	gal	10^5 lb fuel	32.065 lb S	mol S	mol SO_2		
	density	from NSPS	ll sulfur converted to SO_2				

Facility ID: 75-0912 **Facility:** Sazerac of Tennessee, LLC
Permit: E81999
Date: 4/17/2024
JMRh

75-0912-03: Diesel Storage Tank (IA01)

The storage tank will supply the emergency fire pump engine with fuel

Fuel Type:	Diesel	
Tank Diameter:	2.8	ft
Tank Height:	5.3	ft
Tank Type:	Horizontal	
Temperature:	Ambient	
Tank Capacity:	250	gal
Fuel Consumption Rate:	16	gal/hr
Engine Operating Hours:	500	hr/yr
Annual Throughput:	8050	gal/yr

Standing Losses:	0.077	lbs/yr	Based on TankESP Software
Working Losses:	0.202	lbs/yr	Based on TankESP Software
Total Losses:	0.278	lbs/yr	Based on TankESP Software

Facility ID: 75-0912 **Facility:** Sazerac of Tennessee, LLC
Permit: E81999
Date: 4/17/2024
JMRh

75-0912-04: Four Natural Gas Direct-fired Water Heaters (EU04)

Water heaters maintain a minimum temperature in each warehouse to prevent the fire suppression pipes from freezing

Heaters: 4 qty
Heater Model: Armstrong Flo-Direct Model AFD-5000
Heat Input Capacity: 5 MMBtu/hr each
Operating Hours: 8760 hr/yr

Potential Emissions from Natural Gas Combustion (each unit)

Pollutant	Emission Factor* (lb/10^6 ft^3)	Heat Input (MMBTU/ hr)	=	Emissions (lb/hr)	Op. Time (hr/yr)	=	Potential Emissions (ton/yr)
PM	7.6	5.00	=	0.037	8760	=	0.163
SO_2	0.6	5.00	=	0.003	8760	=	0.013
CO	84	5.00	=	0.412	8760	=	1.804
VOC	5.5	5.00	=	0.027	8760	=	0.118
NO_x	100	5.00	=	0.490	8760	=	2.147
Total HAP	1.9	5.00	=	0.009	8760	=	0.041

*** Emission Factors are from EPA AP-42, Chapter 1, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4**

Potential Emissions from Natural Gas Combustion (total)

Pollutant	Emission Factor* (lb/10^6 ft^3)	Heat Input (MMBTU/ hr)	=	Emissions (lb/hr)	Op. Time (hr/yr)	=	Potential Emissions (ton/yr)
PM	7.6	20.00	=	0.149	8760	=	0.653
SO_2	0.6	20.00	=	0.012	8760	=	0.052
CO	84	20.00	=	1.647	8760	=	7.214
VOC	5.5	20.00	=	0.108	8760	=	0.472
NO_x	100	20.00	=	1.961	8760	=	8.588
Total HAP	1.9	20.00	=	0.037	8760	=	0.162

*** Emission Factors are from EPA AP-42, Chapter 1, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4**

Facility ID: 75-0912 **Facility:** Sazerac of Tennessee, LLC
Permit: E81999
Date: 4/17/2024
JMRh

75-0912-05: Gasoline Storage Tank (IA02)

Fuel Type:	Gasoline	
Tank Diameter:	5.53	ft
Tank Height:	4.71	ft
Tank Type:	Horizontal	
Temperature:	Ambient	
Tank Capacity:	500	gal.
Maximum Turnover:	12	turnovers/yr
	6000	gal/yr

Facility VOC Emission Calculations Based on AP-42 Chapter 7.1

Standing Losses:	173.22	lbs/yr
Working Losses:	49.83	lbs/yr
Total Losses:	223.05	lbs/yr

Emissions estimates based on EPA's AP-42 Chapter 7.1 (Post 2018) emission factors and equations

VOC Emission Estimates Based on AP-42 Section 5.2, Table 5.2-7

Process	Emission Factor (lb/10^3 gal)	PTE VOC (tpy)
Splash Filling	11.5	69.0
Breathing and Emptying	1.0	6.0
Displacement Losses (Uncontroll	11.0	66.0
Spillage	0.7	4.2
Total VOC Emissions:		145.2

Assumes underground gasoline storage tank with splash filling

6. Gasoline Storage Tank (IA02) Emissions

Sample Calculation of Estimated Emissions - Fixed-Roof Tanks

The emissions estimates calculated below are based on EPA's AP-42 Chapter 7.1 (Post 2018) emission factors and equations,

Company: Sazerac
Location: Murfreesboro
Calculations for Tank No.: IA02
Emission estimates per EPA's AP-42 Chapter 7.1 (Post 2018), for: annual 2019

Meteorological Data:
- Avg Atmos Pressure, Pa: 14.62 psia
- Avg Ambient Temp, Taa: 62.3371233 degrees F
- Avg Daily Temp Range, ΔTa: 19.6046575 degrees F
- Avg Daily Solar Insolation, I: 1434.35068 Btu / ft^2 day

Tank Data:
- Tank Type: Horizontal
- Average alpha: 0.64
- Tank Diameter: 5.52791 ft
- Tank Height: 4.71239 ft
- Maximum Fill Height: 3.712388 ft
- Minimum Liquid Level: 1 ft
- Net Working Height: 2.712388 ft
- Fixed Roof Type: horizontal tank
- Average outage, H_{VO}: 2.35619498 ft
- Max Vent Setting: 0.03 psig
- Min Vent Setting: -0.03 psig
- shell color: aluminum-colored paint (diffuse)
- shell condition: Average
- shell alpha: 0.64
- roof color: aluminum-colored paint (diffuse)
- roof condition: Average
- roof alpha: 0.64
- effective roof height: 0 ft
- Hvo: 2.35619 ft

Service Data:
- Service (stored liquid): Gasoline RVP_X
- Product Factor, K_P: 1
- Reid VaporPressure: 9 psi (if specified)
- ASTM Distillation Slope: 3 (if specified)
- Molecular Weight, M_V: 66 lb/lb-mol
- Liquid Bulk Temp, Tb: 65.1 degrees F
- Constant Temp Tank? NO — tank must be insulated for temperature to be constant
- Liquid Bulk Temp Basis? calculated from ambient, per AP-42 equation 1-31
- Liquid Surface Temp, Tla: 67.9 degrees F — per AP-42 equation 1-27, 1-28, 1-29
- True Vapor Pressure, P: 5.3750 psia — per AP-42 equation 1-24, 1-25, 1-26
- Stock Vapor Density, W_V: 0.06233 lb/ft^3 — per AP-42 equation 1-22
- Heating Cycles: Vapor Space Temp., Tv: 70.72133 degree F — per AP-42 equation 1-32, 1-33, 1-34
- Max Liquid Bulk Temp: degrees F
- Min Liquid Bulk Temp: degrees F
- Heating cycle frequency: days

Vapor Pressure Constants: A: B: C:

Operational Data:
- Throughput: 143 bbl per year
- Days this Period: 365 days
- Turnover Rate: 12.3 turnovers per year
- Turnover Factor, K_N: 1.000

Calculated Values:

Vapor Space Expansion Factor, $K_E = \{\Delta T_V / (T + 459.57)\} + \{(\Delta P_V - \Delta P_B) / (P_A - P)\}$ — AP-42 eqn 1-5

where:

ΔT_V = 31.051825 deg F (deg R); daily temperature range in the vapor space — AP-42 eqn 1-6, 1-7, 1-8

Tlx = 75.67 deg F Pvx = 6.220 psia

Tln = 60.14 deg F Pvn = 4.624 psia

ΔP_V = 1.5962715 psia

ΔP_B = 0.06 psi; vent setting range

K_E = 0.2250301

Vented Vapor Saturation Factor, $K_S = 1 / (1 + 0.053\ P\ H_{VO})$ — AP-42 eqn 1-21

K_S = 0.5983666

Vent Setting Correction Factor, K_B:

K_B = 1; except when:

$K_N\ [(P_{BP} + P_A) / (P_I + P_A)] > 1$ — AP-42 eqn 1-40

$K_B = [(P_I + P_A)/K_N - P] / [P_{BP} + P_A - P]$ — AP-42 eqn 1-41

where:

P_{BP} = 0.03 psig; vent pressure setting

P_I = 0 psig; initial gauge pressure (nominal operating pressure)

K_B = 0.9967655

Emissions Estimate for: annual 2019

Standing Storage Loss:	173.22	lb per	year	AP-42 eqn 1-4
Working Loss:	49.83	lb per	year	AP-42 eqn 1-35
Total Emissions:	223.05	lb per	year	AP-42 eqn 1-1
	0.112	tons per	year	