*obtained during inspection

Tradebe Treatment and Recycling, LLC
Air Emissions Summary

Tradebe Treatment and Recycling
East Chicago, IN
2013 Emission Statement Calculations

2014 emission
8.42 VOCs tons per year

requirement for Emissions tatement
every 3 years or if > 25 tons VOC Nox
start 2004, 2007, 2010, 2013, 2016
Report for previous year I

2014 Emission factor calculations

Point #	Point Name	Process #	Process Name	Stack ID	Potential Throughput	2013 Annual Throughput	Throughput Units	2013 Hours of Operation	Permitted Emissions	Permitted Units	Uncontrolled Emissions (tpy)	Capture Efficiency (%)	Control Efficiency (%)	Controlled VOC Emissions (tpy)	Calculated VOC Emission Factor (lb/ton)	Controlled PM-10 Emissions (tpy)	Calculated PM-10 Emission Factor (lb/ton)
1	Fuel Blending Operations	1	Waste Fuel Mixtures	HWM Storage/ Blending		6,605	1000 gallons liquid throughput		1.298	lb /1000 gallons	4.2864	100.00	99.00	0.0429			
	HP 24 Hydropulper		Waste Fuel Mixtures		3,234,323	1,094	1000 gallons liquid throughput	2942	1.37	lb/1000 gallons	0.7497		99.00	0.0075			
2	Material Load Out	1	Material Load Out			6,605	1000 gallons liquid throughput		1.03	lb/1000 gallons	3.4014	0.00	0.00	3.4014			
3	Organic Lab Pack	1	Organic Lab Pack	LP S1		181.30	tons reclaimed solvent processed	4144	0.23	lb VOC/hr		99.00	99.99	0.4766	5.26		
	Degassing cylinder VOC		degas cyl		198	198.40	tons processed				3.97	0.00	98.00	0.0794	0.80		
4	Solids Distillation System	1	SDS Shredder	SDS 01	35,040	10,546.4	tons processed	6,395	0.028	lb VOC/hr				0.0895	0.02		
		2	Solids Distillation System	SDS 03, SDS 07 and SDS 08	35,040	10,546.4	tons processed	6,395	0.169	lb VOC/hr				0.5404	0.102		
		3	Distillation Unit	SDS 05	35,040	4,446.80	tons reclaimed solvent processed	4,314	0.014	lb VOC/hr				0.0302	0.01		
		4	Solids Handling (char)	SDS 03	35,040	1,919.81	tons solids	6,395	0.012	lb PM10/hr						0.0384	0.04
			SDS Shaker	SDS 04	35,040	1,919.81	tons processed	6,395	11.31	lbs /hr pm 9	36.16		90.00	0.0000	0	3.6164	3.77
			SDS Conveyor	SDS09	35,040	1,919.81	tons processed	6,395	6.43	lbs /hr pm 10	20.56		90.00	0.0000	0	2.0560	2.14
	(includes Distl Potstill SDS 7	5	ATDU	SDS 02	87.60	77.48	mmcf	6,395									
5	Fugitives	5	Fugitives	N/A	35,040	0.05	tons waste solvent	8760						0.0500	2,000.00		
6	Pot Still	6	Pot Still	SDS 10	613,200	503.817	1000 gallons liquid throughput	7158.3	1.56	lbs voc/1000 ga	0.39		98.00	0.0079	0.03		
7	Thin Film Evaporator	7	Thin Film Evaporator	S11		3514.17	tons reclaimed solvent processed	1,910	0.014	lb VOC/hr			99.99	0.0134	0.01		
			thin film hotwater htr			2.74	mmcf										
			Molecular Seive dryer			1210.34	tons reclaimed solvent processed	1,000	0.014	lb VOC/hr			99.00	0.0070	0.01		
	Area 1		Storage Tanks	S12-17		962,787	1000 gallons liquid throughput		1.298	lb /1000 gallons	0.6248	100.00	99.00	0.0062			
	Area 1		Load out			962.787	1000 gallons liquid throughput		1.03	lb/1000 gallons	0.4958	0.00	0.00	0.4958			
	Area 8		Storage Tanks			5667.0254	1000 gallons liquid throughput		1.298	lb /1000 gallons	3.6779	100.00	99.00	0.0368			
	Area 8		Load out			5667.0254	1000 gallons liquid throughput		1.03	lb/1000 gallons	2.9185	0.00	0.00	2.9185			
													VOC tpy	8.2034	PM-10 tpy	0.0384	

Based on allowable limit in Air Permit

2014

Point #	Point Name	Process #	Process Name	Stack ID	Potential Throughput	2013 Annual Throughput	Throughput Units	2013 Hours of Operation	CO e.f. (lbs/ Throughput Unit)	CO emissions (tpy)	NOx e.f. (lbs/ Throughput Unit)	Nox emissions (tpy)	PM-10 e.f. (lbs/ Throughput Unit)	PM-10 emissions (tpy)	SO2 e.f. (lbs/ Throughput Unit)	SO2 emissions (tpy)	VOC e.f. (lbs/ Throughput Unit)	VOC emissions (tpy)
1	Fuel Blending Operations	1	Waste Fuel Mixtures	HWM Storage/ Blending	0	6604.636	1000 gallons liquid throughput	0									1.298	0.0429
	HP 24 Hydropulper		Waste Fuel Mixtures		3,234,323	1,094	1000 gallons liquid throughput	2942									1.37	0.0075
2	Material Load Out	1	Material Load Out	0	0	6604.638	1000 gallons liquid throughput	0									1.03	3.4014
3	Organic Lab Pack	1	Organic Lab Pack	LP S1	0	181.2985	tons reclaimed solvent processed	4144									5.26	0.4766
	Degassing cyl		degas cyl		198	198.40	tons processed										0.80	0.0794
4	Solids Distillation System	1	SDS Shredder	SDS 01	35040	10546.384	tons processed	6395									0.02	0.0895
	0	2	Solids Distillation System	SDS 03, SDS 07 and SDS 08	35040	10546.384	tons processed	6395									0.10	0.5404
	0	3	Distillation Unit	SDS 05	35040	4446.80011	tons reclaimed solvent processed	4313.8									0.01	0.0302
	0	4	Solids Handling (char)	SDS 03	35040	1919.805	tons solids	6395					0.04	0.0384				
			SDS Shaker	SDS 04	35040	1,919.81	tons processed	6395					3.77	3.6164				
			SDS Conveyor	SDS09	35040	1,919.81	tons processed	6395					2.14	2.0560				
	(includes Distl Potstill SDS 7	5	ATDU	SDS 02	87.6	77.48	mmcf	6395	84	3.2543	100	3.8741	7.60	0.2944	0.6	0.0232	5.5	0.2131
5	Fugitives	5	Fugitives	N/A	35040	0.05	tons waste solvent	8760									2,000.00	0.05
6	Pot Still	6	Pot Still	SDS 10	613200	503.817	1000 gallons liquid throughput	7158.3									0.03	0.0079
7	Thin Film Evaporator	1	Thin Film Evaporator			3514.17255	tons reclaimed solvent processed	1,910									0.0076	0.0134
		2	thin film hotwater htr			2.741511	mmcf		84	0.1151	100	0.1371	7.6	0.0104	0.6	0.0008	5.5000	0.0075
		3	Molecular Seive dryer			1210.34365	tons reclaimed solvent processed	1,000									0.0116	0.0070
	Area 1	4	Storage Tanks			962.787	1000 gallons liquid throughput										1.298	0.0062
	Area 1	5	Load out			962.787	1000 gallons liquid throughput										1.03	0.4958
8	Area 8	1	Storage Tanks			5667.0254	1000 gallons liquid throughput										1.298	0.0368
	Area 8	1	Load out			5667.0254	1000 gallons liquid throughput										1.03	2.9185
									TOTALS	3.3694		4.0112		6.0156		0.0241		8.4240