EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20686

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Emission	Source	Air Contaminant Emission R		Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
SECOLATS05	Tank 174	CA	0.003	0.008	
HECUIIP02	Process Heater	СО	0.12	0.38	
		NO_x	0.31	0.95	
		PM_{10}	0.03	0.09	
		SO _x	<0.01	0.02	
		VOC	0.04	0.11	
HECUIIP03	Process Heater	CO	0.02	0.04	
		NO_x	0.07	0.21	
		PM_{10}	<0.01	0.01	
		SO_x	<0.01	< 0.01	
		VOC	<0.01	0.01	
FUCUIITU01	Truck Unloading	CA	<0.01	<0.01	
FECUIIP04	Flare	СО	0.32	1.00	
		H₂S	< 0.01	< 0.01	
		NO_x	1.28	4.00	
		PM_{10}	0.05	0.14	
		SO_x	0.40	0.86	
		VOC	0.11	0.35	
		Cresols	0.05	0.15	
		CA	0.02	0.05	
FECUIIP04	Flare Not Operating CU-II Not Operating Scrubber SECUIIP05 Operating	CA	0.03	0.02	
FUCUIIP01	Process Fugitives (4)	CA	0.04	0.16	
FUCUIIS01	Process Fugitives (4)	CA	0.04	0.11	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissi</u> lb/hr	ssion Rates * TPY	
FU1DU01	Process Fugitives (4) No. 1 Distillation Unit	Cresols	0.35	1.39	
FU2BOIL01	Process Fugitives (4)	Cresols	<0.01	<0.01	
	No. 2 Boiler Area	CA	<0.01	<0.01	
FU4BOLS01	Process Fugitives (4) (5) No. 4 Boiler System	Cresols CA VOC Cresols CA VOC	<0.01 <0.01 0.05 <0.01 <0.01 <0.01	0.02 0.01 <0.01 0.01 0.01 <0.01	
FUBAYOU01	Process Fugitives (4) (5) Bayou Tank Farm	Cresols CA VOC Cresols CA VOC	0.08 0.09 0.19 0.04 0.05 0.08	0.31 0.37 0.10 0.17 0.20 0.02	
FUC09DU01	Process Fugitives (4) C-9 Distillation Unit	Cresols CA	0.03 0.38	0.09 1.38	
FUC21DU01	Process Fugitives (4) C-21 Distillation Unit	Cresols CA	0.22 0.16	0.82 0.60	
FUC25DU01	Process Fugitives (4) C-25 Distillation Unit	Cresols CA	0.22 0.11	0.93 0.44	
FUC27DU01	Process Fugitives (4) C-27 Distillation Unit	VOC	0.36	1.57	
FUC33DU01	Process Fugitives (4) C-33 Distillation Unit	Cresols CA	0.04 0.31	0.16 1.19	
FUCAS1201	Process Fugitives (4) CA Storage Area 12	VOC	0.05	0.22	

Emission	Source			on Rates *	
Point No. (1)	Name (2)			TPY	
FUCAS1601	Process Fugitives (4)	Cresols	0.03	0.13	
	CA Storage Area 16	CA	0.05	0.22	
FUCAS1701	Process Fugitives (4)	Cresols	0.05	0.21	
	CA Storage Area 17	CA	0.02	0.09	
FUCAS19B01	Process Fugitives (4)	Cresols	0.06	0.24	
	CA Storage Area 19B	CA	0.22	0.96	
FUCAS33B01	Process Fugitives (4)	Cresols	0.16	0.70	
	CA Storage Area 33B	CA	0.10	0.41	
FUCAS33D01	Process Fugitives (4)	Cresols	0.03	0.11	
	CA Storage Area 33D	CA	0.12	0.53	
FUCAS33E01	Process Fugitives (4)	Cresols	0.05	0.21	
	CA Storage Area 33E	CA	0.03	0.13	
FUCAS9701	Process Fugitives (4)	Cresols	0.06	0.24	
	CA Storage Area 97	CA	<0.01	<0.01	
FUCLUPS01	Process Fugitives (4) Cleanup Unit Storage		0.04 0.03	0.10 0.06	
FUCLUPU01	Process Fugitives (4)	Cresols	0.10	0.21	
	Cleanup Unit	CA	0.07	0.14	
FUC02SU01	Process Fugitives (4)	Cresols	0.16	0.67	
	CO ₂ Springing Unit	CA	0.15	0.64	
FUCOLATS01	Process Fugitives (4) (5) Carbolate Storage	Cresols CA VOC Cresols CA VOC	<0.01 <0.01 0.11 <0.01 <0.01 <0.01	<0.01 <0.01 0.31 <0.01 <0.01	
FUCRAS601	Process Fugitives (4) Crude Acid Storage	VOC	0.14	0.63	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissi</u> lb/hr	sion Rates * TPY	
	Area 6				
FUCRAS801	Process Fugitives (4) Crude Acid Storage Area 8	VOC	0.05	0.21	
FUCRAS19A01	Process Fugitives (4) Crude Acid Storage Area 3	Cresols CA	0.02 0.02	0.10 0.09	
FUCRUDU01	Process Fugitives (4) Crude Unit	VOC	0.53	2.33	
FUCSNPS01	Process Fugitives (4) (5) Caustic/Nap Oil Storage	Cresols CA VOC Cresols CA VOC	0.02 0.01 0.58 <0.01 <0.01 0.04	<0.01 <0.01 0.04 <0.01 <0.01	
FUDRUM01	Process Fugitives (4) Drumming Building	Cresols CA	0.02 0.02	0.01 0.01	
FUEVAP01	Process Fugitives (4) Evaporators	Cresols CA VOC	<0.01 <0.01 0.16	0.04 <0.01 0.46	
FUEVFL01	Process Fugitives (4) Evaporator Flare	Cresols CA VOC	<0.01 <0.01 0.03	<0.01 <0.01 0.08	
FUIEXU01	Process Fugitives (4) Ion Exchange Units	VOC	0.33	1.46	
FULAB01	Process Fugitives (4) Lab Sump	Cresols CA	<0.01 <0.01	0.03 0.03	
FUMPTU01	Process Fugitives (4) MPT Unit	Cresols CA	0.08 <0.01	0.30 <0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissi</u> lb/hr	on Rates *
· Ontervo. (1)	rvaine (2)	rvaine (o)	157111	···
FUNBEX01	Process Fugitives (4) (5) N-Base Extraction	Cresols CA VOC Cresols CA VOC	0.04 0.03 1.19 <0.01 <0.01 0.15	0.11 0.07 3.42 0.01 <0.01 0.43
FUOXRU01	Process Fugitives (4) OXR Unit	Cresols CA	0.26 0.02	1.07 0.09
FUPWNOS01	Process Fugitives (4) (5) Process Water/Nap Oil Storage	Cresols CA VOC	0.02 0.02 0.69	0.10 0.09 3.01
		Cresols CA VOC	<0.01 <0.01 0.06	<0.01 <0.01 0.26
FUPWS22201	Process Fugitives (4) Process Water Storage Tank T-222	Cresols CA	<0.01 <0.01	0.03 0.03
FUPWS22301	Process Fugitives (4) (5) Process Water Storage Tank T-223	Cresols CA	0.03 0.03	0.12 0.11
		Cresols CA	<0.01 <0.01	0.02 0.02
FURLU37A01	Process Fugitives (4) Rail Loading/Unloading Area 37A	Cresols CA	0.09 0.09	0.09 0.09
FURLU37B01	Process Fugitives (4) Rail Loading/Unloading Area 37B	Cresols CA	<0.01 <0.01	<0.01 <0.01
FURLU37C01	Process Fugitives (4)	Cresols	0.05	<0.01

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissi</u> lb/hr	on Rates * TPY
	Rail Loading/Unloading Area 37C			
FURLU37D01	Process Fugitives (4) Rail Loading/Unloading Area 37D	Cresols CA VOC	0.01 0.01 0.02	<0.01 <0.01 0.08
FURSDUS01	Process Fugitives (4) Residue Storage	Cresols CA	0.03 0.03	0.13 0.13
FUSAPOU01	Process Fugitives (4) Sulfuric Acid Polishing Unit	Cresols <0.0 e CA <0.0 Cresols 0.0	0.05	<0.01 <0.01 0.05
FUSAS01	Process Fugitives (4) Sulfuric Acid Storage		<0.01 <0.01	
FUT27501	Process Fugitives (4) Tank T-275 Area		0.01 0.03	
FUTKFLR01	Process Fugitives (4) (5) Tank Vent Flare	Cresols CA VOC Cresols CA VOC	<0.01 <0.01 0.97 <0.01 <0.01 0.04	<0.01 <0.01 4.25 <0.01 <0.01 0.16
FUTTLU2401	Process Fugitives (4) Tank-Truck Loading and Unloading	Cresols CA	0.04 0.03	0.03 0.03
FUVAFU01	Process Fugitives (4) Vacuum Flash Unit	VOC	0.16	0.69
FUWELFS01	Process Fugitives (4) (5) Disposal Well Feed Storage	Cresols CA VOC Cresols CA VOC	<0.01 <0.01 0.20 <0.01 <0.01 0.01	<0.01 <0.01 0.02 <0.01 <0.01

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Emission	Source			on Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
FUWELL01	Process Fugitives (4) (5) Disposal Well	Cresols CA VOC Cresols CA VOC	<0.01 <0.01 0.15 <0.01 <0.01 0.01	<0.01 <0.01 0.02 <0.01 <0.01 <0.01
VECAS2501	C-25 Vent	VOC	<0.01	<0.01
VECAS2502	Tank T-235 (9)	VOC	<0.01	<0.01
VECAS2503	Tank T-237 (9)	VOC	<0.01	<0.01
VECAS2504	Tank T-238 (9)	VOC	<0.01	<0.01
VECAS2505	Tank T-239 (9)	VOC	<0.01	<0.01
VEC27DU04	Tank T-351 (9)	VOC	<0.01	0.02
VEC27DU05	Tank T-352 (9)	VOC	0.42	0.03
VEC27DU06	Tank T-353 (9)	VOC	<0.01	<0.01
VEC27DU07	Tank T-354 (9)	VOC	<0.01	<0.01
VECAS2701	C-27 Vent (9)	VOC	<0.01	<0.01
SEC25DU03	S-25 Scrubber	Cresols CA	0.02 0.01	<0.01 0.01
FURLU37A01	Rail Loading A2 Area (6) Spots 5, 7, 8, and 9	VOC	2.14	0.20
VECAS33D02	Tank T-70 (6)	VOC	0.26	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissi</u> lb/hr	on Rates *
VECAS33D03	Tank T-71 (6)	VOC	<0.01	0.02
VECAS33D05	Tank T-82B (6)	VOC	<0.01	<0.01
VECAS33D06	Tank T-89 (6)	VOC	<0.01	<0.01
SECAS33DO8	S-82 Scrubber	Cresols CA	0.02 0.02	<0.01 <0.01
VECAS1702	Tank T-37 (11)	VOC	0.13	<0.01
VECAS1703	Tank T-38 (11)	VOC	<0.01	<0.01
VECAS1704	Tank T-57 (11)	VOC	<0.01	<0.01
VECAS1705	Tank T-58 (11)	VOC	<0.01	<0.01
VECAS19810	Tank T-68 (11)	VOC	0.32	0.01
VECAS19811	Tank T-69 (11)	VOC	<0.01	0.01
VECAS1706	Tank T-86 (11)	VOC	<0.01	<0.01
VECAS1603	Tank T-151 (11)	VOC	<0.06	0.06
VECAS1604	Tank T-152 (11)	VOC	<0.12	0.03
SECAS1707	S-86 Scrubber	Cresols CA	0.02 0.01	<0.01 <0.01
FUDRUM01	Drum Loading (7)	VOC	0.52	0.02
FURLU37A01	Rail Loading A1 Area (7) Spots 2 and 3	VOC	2.14	0.13
VECAS33E02	Tank T-5 (7)	VOC	0.13	0.01
VECAS33E03	Tank T-6 (7)	VOC	<0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissi</u> lb/hr	on Rates *
VECAS33E06	Tank T-96 (7)	VOC	<0.01	0.01
SECAS33E07	S-96 Scrubber	Cresols CA	0.03 0.03	<0.01 <0.01
SERSDUS03	S-190 Scrubber	CA VOC	<0.01 <0.01	0.01 <0.01
FUTTLU2401	Tank Truck Loading (8)	VOC	1.19	0.18
FURLU37C01	Railcar Loading Vent 37C	VOC (8)	0.74	0.02
FURLU37D01	Railcar Loading Vent 37D	VOC (8)	1.30	0.05
SECAS9701	Tank T-260 (8)	VOC	0.23	0.05
SECAS9702	Tank T-261 (8)	VOC	<0.01	0.01
SECAS9702	S-260 Scrubber	Cresols CA	0.07 0.03	0.01 <0.01
VET27503	Tank T-17 (10)	VOC	<0.01	<0.01
VECRS19A02	Tank T-80 (10)	VOC	0.24	0.02
VECRS19A03	Tank T-81 (10)	VOC	<0.01	0.02
VET27502	Tank T-275 (10)	VOC	<0.01	0.03
SET27504	S-275 Scrubber	Cresols CA	<0.01 <0.01	<0.01 <0.01
VEOXRU04	Tank T-201 (12)	VOC	<0.01	<0.01
VEOXRU05	Tank T-280 (12)	VOC	<0.01	<0.01
VEOXRU06	Tank T-283 (12)	VOC	0.32	0.02
VEOXRU07	Tank T-284 (12)	VOC	<0.01	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant <u>Emissi</u> Name (3) lb/hr		on Rates *
	. 1310 (=)			
VEOXRU08	Tank T-285 (12)	VOC	<0.01	0.03
VEOXRU09	Tank T-286 (12)	VOC	<0.01	<0.01
VEOXRU10	Tank T-287 (12)	VOC	<0.01	<0.01
VEOXRU11	Tank T-288 (12)	VOC	<0.01	<0.01
SEOXRU03	S-310 Scrubber	Cresols CA	0.03 <0.01	<0.01 <0.01
SEBAYOU03	Tanks T-1000,1001 and 1003 (13)	CA	0.002	0.01
	Tank T-1000 (14) Tank T-1003 (15)	VOC VOC	0.7 0.26	3.04 1.12
SEBAYOU02	Tank T-1002 (16)	CA	0.002	0.009
FUBAYOU01	Fugitives (17)	VOC	0.07	0.01

- (1) Emission point identification either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) CO carbon monoxide
 - CA cresylic acid
 - H₂S hydrogen sulfide
 - NO_x total oxides of nitrogen
 - PM₁₀ particulate matter less than 10 microns
 - SO_x sulfur oxides
 - VOC volatile organic compounds as defined in General Rule 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These are uncontrolled process fugitive emissions prior to compliance with Special Provision No. 15.
- (6) This source will be sent to Scrubber S-82 under Special Provision No. 17.
- (7) This source will be sent to Scrubber S-96 under Special Provision No. 19.
- (8) This source will be sent to Scrubber S-260 under Special Provision No. 21.
- (9) This source will be sent to Scrubber S-25 under Special Provision No. 16.
- (10) This source will be sent to Scrubber S-275 under Special Provision No. 22.
- (11) This source will be sent to Scrubber S-86 under Special Provision No. 18.
- (12) This source will be sent to Scrubber S-310 under Special Provision No. 23.
- (13) These sources will be sent to Scrubber S-1000 under Special Provision No. 26.

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	ssion t No. (1)	Source Name (2)	Air Contar	ninant Name (3)	<u>Emissic</u> lb/hr	on Rates * TPY
(15) (16) (17)	Emissions from thi This source will be	s source when in sodium cress source when in naphtha se sent to Scrubber S-1002 un are an estimate only and s	ervice. Ider Special	l Provision No		านm allowable
*	Emission rates are schedule:	e based on and the facilities	s are limited	d by the follow	wing maxim	num operating
	Hrs/dayDays/\	weekWeeks/yearor	Hrs/year <u>8</u>	<u>,760</u>		
						Dated_