Permit Number 4005

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, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point	Source Name (2)	Air Contaminant	Emission Rates	
No. (1)		Name (3)	lbs/hour	TPY (4)
S1 and S2	Plant 1 Scrubber System (Scrubber Nos. 1 and 2)	VOC	0.86	0.04
		Acetone	0.79	0.01
79S-2A, B, C	Plant 2 Scrubber/CAS System	VOC	0.18	0.01
S-7944	Scrubber S-7944	VOC	0.02	0.01
S-7951	Scrubber S-7951	VOC	0.05	0.01
S-7954	Scrubber S-7954	Monochloroacetic acid	0.01	0.01
F-1	Flare F-1	VOC	1.67	0.01
		NOx	0.42	0.26
		СО	0.79	2.12
		SO ₂	0.01	0.01
F-2	Flare F-2	VOC	6.92	0.74
		NOx	0.83	0.66
		СО	1.57	4.26
		SO ₂	0.02	0.11
TO-1	Thermal Oxidizer TO-1	VOC	0.39	0.15
		Acetone	0.04	0.01
		NOx	0.51	2.24
		СО	0.43	1.88
		SO ₂	0.06	0.27

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		PM ₁₀	0.04	0.17
B-1	Plant Boiler	VOC	0.06	0.02
		NOx	0.59	1.75
		со	0.99	0.63
		SO ₂	0.24	0.98
		PM ₁₀	0.10	0.41
CWT	3 Cooling Towers	voc	0.34	1.47
		PM/PM ₁₀	0.01	0.06
LOAD	Truck Loading Losses	VOC	8.95	0.65
FUG	Plant Fugitives (5)	VOC	1.81	7.92
FWP 2 Fir	2 Fire Water Pumps (20 hours per year on each pump)	voc	1.33	0.01
		NOx	16.43	0.16
		со	3.54	0.04
		SO ₂	1.09	0.01
		PM ₁₀	1.17	0.01
НОН	4 Hot Oil Heaters	VOC	0.06 0.59 0.99 0.24 0.10 0.34 0.01 8.95 1.81 1.33 16.43 3.54 1.09	0.27
		NO _x	0.76	3.31
		со	0.95	4.15
		SO ₂	0.01	0.03
		PM ₁₀	0.09	0.38
T-4101	Tank 4101	VOC	1.24	0.24
T-4106	Tank 4106	VOC	0.34	0.06
T-4107	Tank 4107	VOC	2.00	0.01
T-4119	Tank 4119	VOC	0.56	0.07

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T-4125	Tank 4125	Spent Carbon	1.32	0.01
T-4128	Tank 4128	VOC	0.17	0.14
T-4129	Tank 4129	Phosphorous acid	0.01	0.01
T-4130	Tank 4130	Phosphorous acid	0.01	0.01
T-4131	Tank 4131	Phosphorous acid	0.01	0.01
T-4133	Tank 4133	Polyphosphorous acid	0.05	0.01
T-4134	Tank 4134	VOC	0.17	0.13
T-4135	Tank 4135	VOC	0.17	0.09
T-4137	Tank 4137	VOC	2.00	0.02
T-4140	Tank 4140	HCI	0.10	0.01
T-4141	Tank 4141	Phosphorous acid	0.01	0.01
T-4144	Tank 4144	VOC	0.86	0.11
T-4145	Tank 4145	VOC	0.17	0.09
T-7903	Tank 7903	VOC	0.17	0.06
T-7904	Tank 7904	VOC	3.03	0.11
T-7905	Tank 7905	VOC	1.23	0.03
T-7906	Tank 7906	VOC	1.40	0.13
T-7907	Tank 7907	VOC	1.40	0.13
T-7908	Tank 7908	VOC	0.17	0.07
T-7909	Tank 7909	VOC	0.06	0.09
T-7910	Tank 7910	VOC	0.17	0.11
T-7911	Tank 7911	VOC	0.17	0.10
T-7912	Tank 7912	Distillate Fuel No. 2	0.05	0.01
T-7915	Tank 7915	Distillate Fuel No. 2	0.05	0.01

Tank 7920	VOC	0.17	0.06
Tank 7925	VOC	0.02	0.09
Tank 7929	VOC	0.17	0.08
Tank 7930	voc	0.17	0.12
Tank 7934	VOC	0.14	0.15
Tank 7935	voc	0.18	0.19
Tank 7936	voc	0.31	0.12
Tank 7938	VOC	0.17	0.11
Tank 7939	Distillate Fuel No. 2	0.05	0.01
Tank 7941	voc	0.31	0.01
Tank 7945	КОН	0.01	0.01
Tank 7947	voc	0.01	0.04
Tank 7948	voc	0.17	0.15
Tank 7949	voc	0.17	0.10
Tank 7950	voc	0.17	0.16
Tank 7953	voc	1.23	0.03
Tank 7955	voc	0.17	0.18
Tank 7956	voc	0.17	0.14
Tank 7957	voc	0.17	0.15
Tank 7958	voc	0.17	0.15
Tank 7959	voc	0.17	0.15
Tank 7960	voc	0.19	0.30
Tank 7961	Methanol	16.40	0.74
Tank 7962	Isopropanol	12.89	0.22
	Tank 7925 Tank 7929 Tank 7930 Tank 7934 Tank 7935 Tank 7936 Tank 7938 Tank 7939 Tank 7941 Tank 7945 Tank 7947 Tank 7948 Tank 7949 Tank 7950 Tank 7953 Tank 7956 Tank 7957 Tank 7958 Tank 7959 Tank 7960 Tank 7960 Tank 7960 Tank 7961	Tank 7925 VOC Tank 7929 VOC Tank 7930 VOC Tank 7934 VOC Tank 7935 VOC Tank 7936 VOC Tank 7938 VOC Tank 7939 Distillate Fuel No. 2 Tank 7941 VOC Tank 7945 KOH Tank 7947 VOC Tank 7948 VOC Tank 7949 VOC Tank 7950 VOC Tank 7950 VOC Tank 7955 VOC Tank 7956 VOC Tank 7957 VOC Tank 7958 VOC Tank 7959 VOC Tank 7959 VOC Tank 7960 VOC Tank 7960 VOC Tank 7961 Methanol	Tank 7925 VOC 0.02 Tank 7929 VOC 0.17 Tank 7930 VOC 0.17 Tank 7934 VOC 0.14 Tank 7935 VOC 0.18 Tank 7936 VOC 0.31 Tank 7938 VOC 0.17 Tank 7939 Distillate Fuel No. 2 0.05 Tank 7941 VOC 0.31 Tank 7945 KOH 0.01 Tank 7947 VOC 0.17 Tank 7948 VOC 0.17 Tank 7950 VOC 0.17 Tank 7950 VOC 0.17 Tank 7956 VOC 0.17 Tank 7956 VOC 0.17 Tank 7958 VOC 0.17 Tank 7959 VOC 0.17 Tank 7959 VOC 0.17 Tank 7950 VOC 0.17

Tank 7963	VOC	0.17	0.03
Tank 7964	VOC	0.17	0.25
Tank 7965	VOC	0.17	0.09
Tank 7967	VOC	0.17	0.13
Tank 7968	VOC	0.84	0.12
Tank 7971	Potassium Borate	0.05	0.01
Tank 7972	VOC	0.17	0.17
Tank 7975	VOC	1.93	0.02
Tank 7976	VOC	0.17	0.28
Tank 7977	VOC	0.17	0.21
Tank 7978	VOC	0.13	0.38
Tank 7981	Toluene	0.03	0.14
Tank 7982	VOC	0.17	0.37
Tank 7983	VOC	0.17	0.13
Tank 7984	VOC	0.17	0.28
Tank 7985	VOC	0.17	0.35
Tank 7987	Caustic Soda	0.01	0.01
Accumulator Tank	VOC	0.25	0.01
MSS Emission Cap (6)	VOC	29.09	1.44
	Tank 7964 Tank 7965 Tank 7967 Tank 7968 Tank 7971 Tank 7972 Tank 7975 Tank 7976 Tank 7977 Tank 7981 Tank 7983 Tank 7984 Tank 7985 Tank 7987 Accumulator Tank	Tank 7964 VOC Tank 7965 VOC Tank 7967 VOC Tank 7968 VOC Tank 7971 Potassium Borate Tank 7972 VOC Tank 7975 VOC Tank 7976 VOC Tank 7977 VOC Tank 7978 VOC Tank 7981 Toluene Tank 7982 VOC Tank 7983 VOC Tank 7984 VOC Tank 7985 VOC Tank 7987 Caustic Soda Accumulator Tank VOC	Tank 7964 VOC 0.17 Tank 7965 VOC 0.17 Tank 7967 VOC 0.17 Tank 7968 VOC 0.84 Tank 7971 Potassium Borate 0.05 Tank 7972 VOC 0.17 Tank 7975 VOC 1.93 Tank 7976 VOC 0.17 Tank 7977 VOC 0.17 Tank 7978 VOC 0.13 Tank 7981 Toluene 0.03 Tank 7982 VOC 0.17 Tank 7984 VOC 0.17 Tank 7985 VOC 0.17 Tank 7987 Caustic Soda 0.01 Accumulator Tank VOC 0.25

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from plot plan.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 NO_x - total oxides of nitrogen

 carbon monoxide CO

SO₂ sulfur dioxide

PM total particulate matter, suspended in the atmosphere, including PM₁₀

Specific point source name. For fugitive sources, use area name or fugitive source name. (2)

PM₁₀ - total particulate matter equal to or less than 10 microns in diameter

HCl - hydrogen chloride KOH - potassium chloride

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Emission rate includes controlled and uncontrolled emissions associated with planned MSS activities.
- (7) Fuel gas for the combustion devices and assist/pilot gas for the flares authorized by this permit includes landfill gas as represented in the permit amendment application. Pipeline quality, sweet natural gas is also authorized.

Date:		