

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

### EMISSION CAPS

Permit Numbers 21262 and PSDTX928

This table lists the maximum allowable emission caps 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.

### AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
A213	CR3 Recycle Gas SG Analyzer	Benzene		
A214	CR3 Recycle Gas Moisture Analyzer	Benzene		
A298	CR3 Regen Gas O <sub>2</sub> Analyzer	Benzene		
A300	CR3 Regen Gas Comb. Analyzer	Benzene		
AP16	AP16 Storage Tank	Benzene		
AP17	AP17 Storage Tank	Benzene		
AP6	AP6 Storage Tank	Benzene		
AP8	AP8 Storage Tank	Benzene		
AYARDOWS	WW - Sewer A Yard Oily Water	Benzene		
BARGE	Marine Loading - Barge Docks	Benzene		
BENZENE1	Marine Loading - Benzene Dock 1	Benzene		
BENZENE2	Marine Loading - Benzene Dock 2	Benzene		
BENZENE4	Marine Loading - Benzene Dock 4	Benzene		
BYARDOWS	WW - Sewer B Yard Oily Water	Benzene		
CCLP	WW - Cat Cracker Lube Plant	Benzene		
CPI1	WW- CPI Oil Water Separator	Benzene		

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CPI2	WW- CPI Oil Water Separator	Benzene
CRUDE	Marine Loading - Crude Docks	Benzene
CYARDOWS	Wastewater Fugitives (4)	Benzene
DAOWS	WW - Sewer DA Oily Water	Benzene
DD2	WW - Dispatching Distilling 2	Benzene
DOCK1	Marine Loading - Dock 1	Benzene
DOCK2	Marine Loading - Dock 2	Benzene
DOCK4	Marine Loading - Dock 4	Benzene
DOCKS	Dock Wastewater Collection	Benzene
DYARDOWS	WW - Sewer D Yard Oily Water	Benzene
F314	F314 Storage Tank	Benzene
F315	F315 Storage Tank	Benzene
F316	F316 Storage Tank	Benzene
F317	F317 Storage Tank	Benzene
F338	F338 Storage Tank	Benzene
FUGCCU	FCCU Fugitives (4)	Benzene
FUGCCUSCR	FCCU SCR Fugitives (4)	Benzene
FUGCOKER	Coke Handling Fugitives (4)	Benzene
FUGCR3	CR3 Fugitives (4)	Benzene
FUGCR3TF	Hydroprocessing Tank Farm Fugitives (4)	Benzene
FUGDHT	DHT Fugitives (4)	Benzene
FUGDISP	DISP Fugitive	Benzene
FUGDOCK	Dock Fugitives (4)	Benzene
FUGDU1	DU1 Fugitives (4)	Benzene
FUGDU2	DU2 Fugitives (4)	Benzene
FUGDU2B	DU3 Fugitives (4)	Benzene
FUGENVN	Environmental North Fugitives (4)	Benzene
FUGGFRAC	GFRAC Fugitives (4)	Benzene
FUGGOHT	GOHT Fugitives (4)	Benzene
FUGGR	GR Fugitives (4)	Benzene
FUGHDU1	HU1 Fugitives (4)	Benzene
FUGHP1	HP1 Fugitives (4)	Benzene
FUGLHT2	LHT2 Fugitives (4)	Benzene
FUGPLAT2	PLAT2 Fugitives (4)	Benzene
FUGPSA	PSA Fugitives (4)	Benzene
FUGSGP	SGP Fugitives (4)	Benzene
FUGSHCU	SHCU Fugitives (4)	Benzene

FUGTHCR	Thermal Cracking Fugitives (4)	Benzene
G308	G308 Storage Tank	Benzene
G309	G309 Storage Tank	Benzene
G310	G310 Storage Tank	Benzene
G311	G311 Storage Tank	Benzene
G313	G313 Storage Tank	Benzene
G315	G315 Storage Tank	Benzene
G316	G316 Storage Tank	Benzene
G320	G320 Storage Tank	Benzene
G322	G322 Storage Tank	Benzene
G323	G323 Storage Tank	Benzene
G326	G326 Storage Tank	Benzene
G327	G327 Storage Tank	Benzene
G328	G328 Storage Tank	Benzene
G329	G329 Storage Tank	Benzene
G332	G332 Storage Tank	Benzene
G342	G342 Storage Tank	Benzene
G346	G346 Storage Tank	Benzene
G348	G348 Storage Tank	Benzene
G355	G355 Storage Tank	Benzene
G356	G356 Storage Tank	Benzene
G357	G357 Storage Tank	Benzene
G358	G358 Storage Tank	Benzene
G360	G360 Storage Tank	Benzene
GIRBOTWW	WW Collection in Girbitol	Benzene
HVIOWS	WW - Sewer HVI Oily Water	Benzene
J303B	J303B Storage Tank	Benzene
J304	J304 Storage Tank	Benzene
J308	J308 Storage Tank	Benzene
J309	J309 Storage Tank	Benzene
J311	J311 Storage Tank	Benzene
J312	J312 Storage Tank	Benzene
J315	J315 Storage Tank	Benzene
J316	J316 Storage Tank	Benzene
J317	J317 Storage Tank	Benzene
J320	J320 Storage Tank	Benzene
J322	J322 Storage Tank	Benzene
J323	J323 Storage Tank	Benzene
J324	J324 Storage Tank	Benzene
J326	J326 Storage Tank	Benzene
J327	J327 Storage Tank	Benzene
J328	J328 Storage Tank	Benzene

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J336	J336 Storage Tank	Benzene
J337	J337 Storage Tank	Benzene
J338	J338 Storage Tank	Benzene
J348	J348 Storage Tank	Benzene
J349	J349 Storage Tank	Benzene
K303	K303 Storage Tank	Benzene
K304	K304 Storage Tank	Benzene
LEUOWS	WW - Sewer LEU Oily Water	Benzene
LHT1OWS	WW - Sewer LHT1 Oily Water	Benzene
LHT2OWS	WW - Sewer LHT2 Oily Water	Benzene
LOADOWS	WW - Sewer Loading Racks	Benzene
MANHOLE4	WW - Manhole 4	Benzene
MVIDEASS	WW - Sewer DEA	Benzene
MVIEWS	WW - Sewer MVI Oily Water	Benzene
NAB	North Aeration Basin	Benzene
NDAF	WW - North DAF Unit	Benzene
OWATCTF	WW - Alky Tank Farm Oily Water	Benzene
OWDU1	WW - Sewer Oily Water HUB	Benzene
S412	S412 Storage Tank	Benzene
SAB	South Aeration Basin	Benzene
SDAF	WW - South DAF Unit	Benzene
SR3/4WW	SR3/4 Wastewater Collection	Benzene
SS376	SS376 Storage Tank	Benzene
SS377	SS377 Storage Tank	Benzene
SS378	SS378 Storage Tank	Benzene
SS379	SS379 Storage Tank	Benzene
SS403	SS403 Storage Tank	Benzene
T1F323	T1F323 Storage Tank	Benzene
T1F324	T1F324 Storage Tank	Benzene
T1F329	T1F329 Storage Tank	Benzene
T1F330	T1F330 Storage Tank	Benzene
T301	T301 Storage Tank	Benzene
T302	T302 EXTFLT Refinery WW Storage Tank	Benzene
TA301	TA301 Storage Tank	Benzene
TA305	TA305 Storage Tank	Benzene
TA306	TA306 Storage Tank	Benzene
TA307	TA307 Storage Tank	Benzene
TA308	TA308 Storage Tank	Benzene
TA309	TA309 Storage Tank	Benzene

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TA310	TA310 Storage Tank	Benzene
TA312	TA312 Storage Tank	Benzene
TA313	TA313 Storage Tank	Benzene
TA315	TA315 Storage Tank	Benzene
TA316	TA316 Storage Tank	Benzene
TA317	TA317 Storage Tank	Benzene
TA318	TA318 Storage Tank	Benzene
TA319	TA319 Storage Tank	Benzene
TA320	TA320 Storage Tank	Benzene
TA321	TA321 Storage Tank	Benzene
TA322	TA322 Storage Tank	Benzene
TA324	TA324 Storage Tank	Benzene
TA325	TA325 Storage Tank	Benzene
TA326	TA326 Storage Tank	Benzene
TA329	TA329 Storage Tank	Benzene
TA330	TA330 Storage Tank	Benzene
TA331	TA331 Storage Tank	Benzene
TA332	TA332 Storage Tank	Benzene
TA334	TA334 Storage Tank	Benzene
TC and G	WW - Thermal Cracking and Gas Treating	Benzene
TG324	TG324 Storage Tank	Benzene
TG362	TG362 Storage Tank	Benzene
TJ333	TJ333 Storage Tank	Benzene
TJ334	TJ334 Storage Tank	Benzene
TJ335	TJ335 Storage Tank	Benzene
TJ339R1	TJ339R1 Storage Tank	Benzene
TK305	TK305 Storage Tank	Benzene
TRKLFIL	WW - Trickle Filter	Benzene
TRKLSMP	WW - Trickle Sump	Benzene
WAXPTOWS	WW - Sewer Wax Plant Oily Water	Benzene
WAXPTWAX	WW - Sewer Wax Plant Wax	Benzene
X311	INTFLT/Amine Solutions Storage Tank	Benzene
X312	INTFLT/Amine Solutions Storage Tank	Benzene
X313	INTFLT/Slop Oil Storage Tank	Benzene
X315	Ballast Water Storage Tank	Benzene
X316	WW - DAF Float	Benzene
X320	Ballast Water O/S Storage Tank	Benzene

X321	Slop Oil Storage Tank	Benzene
X322	X322 Storage Tank	Benzene
X323	X323 Storage Tank	Benzene
X324	FXTNK2/Misc Organic Storage Tank	Benzene
X325	FXTNK2/Misc Organic Storage Tank	Benzene
X326	FXTNK2/DAF Float Storage Tank	Benzene
X327	FXTNK2/DAF Float Storage Tank	Benzene
X328	FXTNK2/Misc Organic Storage Tank	Benzene
X330	WW - Equalization Tank	Benzene
X330SM	WW - Sump	Benzene

	<b>FINAL EMISSIONS CAP</b>	Benzene	10.96	30.36
A1006	H <sub>2</sub> S 4 Point Analyzer	CO		
A10823	CCU CO Analyzer	CO		
A10824	CO Analyzer	CO		
A10825	O <sub>2</sub> Analyzer	CO		
A10502	CCU SNCR NO <sub>x</sub> /SO <sub>2</sub> /O <sub>2</sub> Analyzer	CO		
A162	H5301 O <sub>2</sub> Analyzer	CO		
A180	H5302 O <sub>2</sub> Analyzer	CO		
A236	H5305 O <sub>2</sub> Analyzer	CO		
A34160	CR-3 Furnaces CEMS Analyzer	CO		
A785	H5303 O <sub>2</sub> Analyzer	CO		
A786	H5304 O <sub>2</sub> Analyzer	CO		
AE2340	Octane Testing Engine	CO		
AE2636	Octane Testing Engine	CO		
AE2650	Octane Testing Engine	CO		
AE348	On-line Knock Engine	CO		
AE349	On-line Knock Engine	CO		
AE388	On-line Knock Engine	CO		
AE389	On-line Knock Engine	CO		
AE700	Octane Testing Engine	CO		
AE768	Octane Testing Engine	CO		
FLARECCU	CCU Flare	CO		
FLARECOKE	Coker Flare	CO		
FLAREEP	East Property Flare	CO		

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FLAREGIRB	EP (Girbitol) Flare	CO
FLARELHT	LHT Flare	CO
FLARENP	North Property Flare	CO
FLARESOUTH	South Property Flare	CO
FLAREWP	West Property Flare	CO
H1000	PLAT2 Heater	CO
H1001	Guard Bed Start-up Heater	CO
H1010	HDU-1 Charge Heater	CO
H1011	HDU-1 Reboiler Heater	CO
H1100	DHT Heater	CO
H1170	CFH Charge Heater	CO
H31001/2	Coker Heaters No. 1 and 2	CO
H31003	Coker Heater No. 3	CO
H3300	DHT H <sub>2</sub> Heater	CO
H36100	CGHT Heater	CO
H5100	DU-2 South Crude Heater	CO
H5101	DU-2 North Crude Heater	CO
H5102	DU-2 South Flasher Charge Heater	CO
H5103	DU-2 North Flasher Charge Heater	CO
H5104	DU-2 Preflash Heater	CO
H5105	DU-2 Preflash2 Heater	CO
H5200	HDU-2 Charge Heater	CO
H53NN	Catalytic Reformer SCR	CO
H5400	SHCU South Charge Heater	CO
H5402	SHCU Reboiler Heater	CO
H5403	SHCU North Charge Heater	CO
H5404	SHCU Post-Frac Heater	CO
H5500A	SMR Heater A	CO
H5500B	SMR Heater B	CO
H5500C	SMR Heater C	CO
H5600	SGP Heat Medium Heater	CO
H613	DU-1 Secondary Pre-Heater	CO
H63000	HVI Column Charge Heater	CO
H70001/2	GOHT Recycle Gas and Frac. Reboiler Heaters	CO
H850S1	PERC Heater - North Stack	CO
H850S2	PERC Heater - South Stack	CO
H9150R1	Heater	CO
SR3/4STACK	SR-3/4 Incinerator	CO
SR5STACK	SR5 Tail Gas Incinerator	CO
SR6STACK	SR6 Tail Gas Incinerator	CO

SR7STACK	SR7 Tail Gas Incinerator	CO
SR8STACK	SR8 Tail Gas Incinerator	CO

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	<b>FINAL EMISSIONS CAP</b>	CO (5)	777.95	2688.22
A1284	Debut. Tops Analyzer	H <sub>2</sub> S		
A1760	H <sub>2</sub> S Analyzer	H <sub>2</sub> S		
AP16	Storage Tank	H <sub>2</sub> S		
AP17	Storage Tank	H <sub>2</sub> S		
BARGE	Marine Loading - Barge	H <sub>2</sub> S		
	Docks			
BENZENE1	Marine Loading - Benzene	H <sub>2</sub> S		
	Dock 1			
BENZENE2	Marine Loading - Benzene	H <sub>2</sub> S		
	Dock 2			
BENZENE4	Marine Loading - Benzene	H <sub>2</sub> S		
	Dock 4			
BYARDOWS	WW - Sewer B Yard Oily	H <sub>2</sub> S		
	Water			
C9150/51	C9150/51 Vent	H <sub>2</sub> S		
C9152/53	C9152/53 Vent	H <sub>2</sub> S		
CRUDE	Marine Loading - Crude	H <sub>2</sub> S		
	Docks			
DOCK1	Marine Loading - Dock 1	H <sub>2</sub> S		
DOCK2	Marine Loading - Dock 2	H <sub>2</sub> S		
DOCK4	Marine Loading - Dock 4	H <sub>2</sub> S		
F338	F338 Storage Tank	H <sub>2</sub> S		
FLARECCU	CCU Flare	H <sub>2</sub> S		
FLARECOKE	Coker Flare	H <sub>2</sub> S		
FLAREEP	East Property Flare	H <sub>2</sub> S		
FLAREGIRB	EP (Girbitol) Flare	H <sub>2</sub> S		
FLARELHT	LHT Flare	H <sub>2</sub> S		
FLARENP	North Property Flare	H <sub>2</sub> S		
FLARESOUTH	South Property Flare	H <sub>2</sub> S		
FLAREWP	West Property Flare	H <sub>2</sub> S		
FUGALKY	Alky Fugitives (4)	H <sub>2</sub> S		
FUGAYARD	Fugitives (4)	H <sub>2</sub> S		
FUGCCU	FCCU Fugitives (4)	H <sub>2</sub> S		
FUGCFH	CFH Fugitives (4)	H <sub>2</sub> S		
FUGCOKER	Coke Handling Fugitives (4)	H <sub>2</sub> S		
FUGCPU	CPU Fugitives (4)	H <sub>2</sub> S		
FUGCR3	CR3 Fugitives (4)	H <sub>2</sub> S		



FUGCR3TF	Hydroprocessing Tank Farm Fugitives (4)	H <sub>2</sub> S
FUGDHT	DHT Fugitives (4)	H <sub>2</sub> S
FUGDISP	DISP Fugitive	H <sub>2</sub> S
FUGDU1	DU1 Fugitives (4)	H <sub>2</sub> S
FUGDU2	DU2 Fugitives (4)	H <sub>2</sub> S
FUGGFRAC	GFRAC Fugitives (4)	H <sub>2</sub> S
FUGGIRBIT	Girbitol Fugitives (4)	H <sub>2</sub> S
FUGGOHT	GOHT Fugitives (4)	H <sub>2</sub> S
FUGGR	GR Fugitives (4)	H <sub>2</sub> S
FUGHDU1	DU1 Fugitives (4)	H <sub>2</sub> S
FUGHP1	HP1 Fugitives (4)	H <sub>2</sub> S
FUGLHT2	LHT2 Fugitives (4)	H <sub>2</sub> S
FUGPLAT2	PLAT2 Fugitives (4)	H <sub>2</sub> S
FUGSGP	SGP Fugitives (4)	H <sub>2</sub> S
FUGSHCU	SHCU Fugitives (4)	H <sub>2</sub> S
FUGSR5	SR5 Fugitives (4)	H <sub>2</sub> S
FUGSR6	SR6 Fugitives (4)	H <sub>2</sub> S
FUGSR7	SR7 Fugitives (4)	H <sub>2</sub> S
FUGSR8	SR8 Fugitives (4)	H <sub>2</sub> S
FUGTHCR	Thermal Cracking Fugitives (4)	H <sub>2</sub> S
G332	G332 Storage Tank	H <sub>2</sub> S
J317	J317 Storage Tank	H <sub>2</sub> S
J318B	J318B Storage Tank	H <sub>2</sub> S
J325	J325 Storage Tank	H <sub>2</sub> S
J326	J326 Storage Tank	H <sub>2</sub> S
J327	J327 Storage Tank	H <sub>2</sub> S
J328	J328 Storage Tank	H <sub>2</sub> S
J331	J331 Storage Tank	H <sub>2</sub> S
J332	J332 Storage Tank	H <sub>2</sub> S
J348	J348 Storage Tank	H <sub>2</sub> S
J349	J349 Storage Tank	H <sub>2</sub> S
L2COMPVT	L2COMPVT Vent	H <sub>2</sub> S
LDSULF67	SR6 and SR7 Loading Rack	H <sub>2</sub> S
LHT1OWS	WW - Sewer LHT1 Oily Water	H <sub>2</sub> S
LHT2OWS	WW - Sewer LHT2 Oily Water	H <sub>2</sub> S
MVIDEASS	WW - Sewer DEA	H <sub>2</sub> S
RKLTC/TT	Load	H <sub>2</sub> S
S429	S429 Storage Tank	H <sub>2</sub> S
SR3/4PIT	SR3/4 Sulfur Pit	H <sub>2</sub> S

SR3/4STACK	SR-3/4 Incinerator	H <sub>2</sub> S
SR5L01	SR5 Loading Rack	H <sub>2</sub> S
SR5L02	SR5 Loading Rack	H <sub>2</sub> S
SR5STACK	SR5 Tail Gas Incinerator	H <sub>2</sub> S
SR6STACK	SR6 Tail Gas Incinerator	H <sub>2</sub> S
SR7STACK	SR7 Tail Gas Incinerator	H <sub>2</sub> S
SR8STACK	SR8 Tail Gas Incinerator	H <sub>2</sub> S
SRTT	SR3/4 Loading Rack	H <sub>2</sub> S
SS343	SS343 Storage Tank	H <sub>2</sub> S
SULFUR	SR5 Sulfur Pit	H <sub>2</sub> S
TA301	TA301 Storage Tank	H <sub>2</sub> S
TA305	TA305 Storage Tank	H <sub>2</sub> S
TA306	TA306 Storage Tank	H <sub>2</sub> S
TA307	TA307 Storage Tank	H <sub>2</sub> S
TA310	TA310 Storage Tank	H <sub>2</sub> S
TA312	TA312 Storage Tank	H <sub>2</sub> S
TA313	TA313 Storage Tank	H <sub>2</sub> S
TA315	TA315 Storage Tank	H <sub>2</sub> S
TA316	TA316 Storage Tank	H <sub>2</sub> S
TA317	TA317 Storage Tank	H <sub>2</sub> S
TA318	TA318 Storage Tank	H <sub>2</sub> S
TA319	TA319 Storage Tank	H <sub>2</sub> S
TA320	TA320 Storage Tank	H <sub>2</sub> S
TA321	TA321 Storage Tank	H <sub>2</sub> S
TA322	TA322 Storage Tank	H <sub>2</sub> S
TA324	TA324 Storage Tank	H <sub>2</sub> S
TA325	TA325 Storage Tank	H <sub>2</sub> S
TA326	TA326 Storage Tank	H <sub>2</sub> S
TA329	TA329 Storage Tank	H <sub>2</sub> S
TA330	TA330 Storage Tank	H <sub>2</sub> S
TA331	TA331 Storage Tank	H <sub>2</sub> S
TA332	TA332 Storage Tank	H <sub>2</sub> S
TA334	TA334 Storage Tank	H <sub>2</sub> S
TG324	TG324 Storage Tank	H <sub>2</sub> S
TG362	TG362 Storage Tank	H <sub>2</sub> S
TJ339R1	TJ339R1 Storage Tank	H <sub>2</sub> S
TSR67	Molten Sulfur Tank	H <sub>2</sub> S
VA03	VA03 Storage Tank	H <sub>2</sub> S
VA04	VA04 Storage Tank	H <sub>2</sub> S
X313	INTFLT/Slop Oil Storage Tank	H <sub>2</sub> S

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	<b>FINAL EMISSIONS CAP</b>	<b>H<sub>2</sub>S</b>	<b>29.61</b>	<b>85.77</b>
AYARDOWS	WW - Sewer A Yard Oily Water	NH <sub>3</sub>		
BYARDOWS	WW - Sewer B Yard Oily Water	NH <sub>3</sub>		
CCLP	WW - Cat Cracker Lube Plant	NH <sub>3</sub>		
CPI1	WW- CPI Oil Water Separator	NH <sub>3</sub>		
CPI2	WW- CPI Oil Water Separator	NH <sub>3</sub>		
CYARDOWS	Wastewater Fugitives (4)	NH <sub>3</sub>		
DAOWS	WW - Sewer DA Oily Water	NH <sub>3</sub>		
DD2	WW - Dispatching Distilling 2	NH <sub>3</sub>		
DOCKS	Dock Wastewater Collection	NH <sub>3</sub>		
DYARDOWS	WW - Sewer D Yard Oily Water	NH <sub>3</sub>		
FUGCCU	FCCU Fugitives (4)	NH <sub>3</sub>		
FUGCCUSCR	FCCU SCR Fugitives (4)	NH <sub>3</sub>		
FUGCOKER	Coke Handling Fugitives (4)	NH <sub>3</sub>		
FUGCR3SCR	CR3 SCR Fugitives (4)	NH <sub>3</sub>		
FUGDHT	DHT Fugitives (4)	NH <sub>3</sub>		
FUGDISP	DISP Fugitive	NH <sub>3</sub>		
FUGDOCK	Dock Fugitives (4)	NH <sub>3</sub>		
FUGDU2	DU2 Fugitives (4)	NH <sub>3</sub>		
FUGHDU1	DU1 Fugitives (4)	NH <sub>3</sub>		
FUGSR6	SR6 Fugitives (4)	NH <sub>3</sub>		
FUGSR7	SR7 Fugitives (4)	NH <sub>3</sub>		
FUGSR8	SR8 Fugitives (4)	NH <sub>3</sub>		
GIRBOTWW	WW Collection in Girbitol	NH <sub>3</sub>		
H53NN	Catalytic Reformer SCR	NH <sub>3</sub>		
J318B	J318B Storage Tank	NH <sub>3</sub>		
LEUOWS	WW - Sewer LEU Oily Water	NH <sub>3</sub>		
LHT1OWS	WW - Sewer LHT1 Oily Water	NH <sub>3</sub>		
LHT2OWS	WW - Sewer LHT2 Oily Water	NH <sub>3</sub>		
LOADOWS	WW - Sewer Loading Racks	NH <sub>3</sub>		
MANHOLE4	WW - Manhole 4	NH <sub>3</sub>		
MVIDEASS	WW - Sewer DEA	NH <sub>3</sub>		
MVIOWS	WW - Sewer MVI Oily Water	NH <sub>3</sub>		
NAB	North Aeration Basin	NH <sub>3</sub>		

NDAF	WW - North DAF Unit	NH <sub>3</sub>
OWDU1	WW - Sewer Oily Water HUB	NH <sub>3</sub>
S429	S429 Storage Tank	NH <sub>3</sub>
SAB	South Aeration Basin	NH <sub>3</sub>
SDAF	WW - South DAF Unit	NH <sub>3</sub>
SR3/4WW	SR3/4 Wastewater Collection	NH <sub>3</sub>
T301	T301 Storage Tank	NH <sub>3</sub>
T302	T302 EXTFLT Refinery WW Storage Tank	NH <sub>3</sub>
TC and G	WW - Thermal Cracking and Gas Treating	NH <sub>3</sub>
TRKLFIL	WW - Trickle Filter	NH <sub>3</sub>
TRKLSMP	WW - Trickle Sump	NH <sub>3</sub>
WAXPTOWS	WW - Sewer Wax Plant Oily Water	NH <sub>3</sub>
WAXPTWAX	WW - Sewer Wax Plant Wax	NH <sub>3</sub>
X311	INTFLT/Amine Solutions Storage Tank	NH <sub>3</sub>
X312	INTFLT/Amine Solutions Storage Tank	NH <sub>3</sub>
X316	WW - DAF Float	NH <sub>3</sub>
X330	WW - Equalization Tank	NH <sub>3</sub>
X330SM	WW - Sump	NH <sub>3</sub>

**FINAL EMISSIONS CAP**

NH<sub>3</sub> 5.44 23.74

A10823	CCU CO Analyzer	NO <sub>x</sub>
A10824	CO Analyzer	NO <sub>x</sub>
A10825	O <sub>2</sub> Analyzer	NO <sub>x</sub>
A10502	CCU SNCR NO <sub>x</sub> /SO <sub>2</sub> /O <sub>2</sub> Analyzer	NO <sub>x</sub>
A162	H5301 O <sub>2</sub> Analyzer	NO <sub>x</sub>
A180	H5302 O <sub>2</sub> Analyzer	NO <sub>x</sub>
A236	H5305 O <sub>2</sub> Analyzer	NO <sub>x</sub>
A34160	CR-3 Furnaces CEMS Analyzer	NO <sub>x</sub>
A785	H5303 O <sub>2</sub> Analyzer	NO <sub>x</sub>
A786	H5304 O <sub>2</sub> Analyzer	NO <sub>x</sub>
AE2340	Octane Testing Engine	NO <sub>x</sub>
AE2636	Octane Testing Engine	NO <sub>x</sub>
AE2650	Octane Testing Engine	NO <sub>x</sub>
AE348	On-line Knock Engine	NO <sub>x</sub>
AE349	On-line Knock Engine	NO <sub>x</sub>

AE388	On-line Knock Engine	NO <sub>x</sub>
AE389	On-line Knock Engine	NO <sub>x</sub>
AE700	Octane Testing Engine	NO <sub>x</sub>
AE768	Octane Testing Engine	NO <sub>x</sub>
FLARECCU	CCU Flare	NO <sub>x</sub>
FLARECOKE	Coker Flare	NO <sub>x</sub>
FLAREEP	East Property Flare	NO <sub>x</sub>
FLAREGIRB	EP (Girbitol) Flare	NO <sub>x</sub>
FLARELHT	LHT Flare	NO <sub>x</sub>
FLARENP	North Property Flare	NO <sub>x</sub>
FLARESOUTH	South Property Flare	NO <sub>x</sub>
FLAREWP	West Property Flare	NO <sub>x</sub>
H1000	PLAT2 Heater	NO <sub>x</sub>
H1001	Guard Bed Start-up Heater	NO <sub>x</sub>
H1010	HDU-1 Charge Heater	NO <sub>x</sub>
H1011	HDU-1 Reboiler Heater	NO <sub>x</sub>
H1100	DHT Heater	NO <sub>x</sub>
H1170	CFH Charge Heater	NO <sub>x</sub>
H31001/2	Coker Heaters No. 1 and 2	NO <sub>x</sub>
H31003	Coker Heater No. 3	NO <sub>x</sub>
H3300	DHT H <sub>2</sub> Heater	NO <sub>x</sub>
H36100	CGHT Heater	NO <sub>x</sub>
H5100	DU-2 South Crude Heater	NO <sub>x</sub>
H5101	DU-2 North Crude Heater	NO <sub>x</sub>
H5102	DU-2 South Flasher Charge Heater	NO <sub>x</sub>
H5103	DU-2 North Flasher Charge Heater	NO <sub>x</sub>
H5104	DU-2 Preflash Heater	NO <sub>x</sub>
H5105	DU-2 Preflash2 Heater	NO <sub>x</sub>
H5200	HDU-2 Charge Heater	NO <sub>x</sub>
H53NN	Catalytic Reformer SCR	NO <sub>x</sub>
H5400	SHCU South Charge Heater	NO <sub>x</sub>
H5402	SHCU Reboiler Heater	NO <sub>x</sub>
H5403	SHCU North Charge Heater	NO <sub>x</sub>
H5404	SHCU Post-Frac Heater	NO <sub>x</sub>
H5500A	SMR Heater A	NO <sub>x</sub>
H5500B	SMR Heater B	NO <sub>x</sub>
H5500C	SMR Heater C	NO <sub>x</sub>
H5600	SGP Heat Medium Heater	NO <sub>x</sub>
H613	DU-1 Secondary Pre-Heater	NO <sub>x</sub>
H63000	HVI Column Charge Heater	NO <sub>x</sub>

H70001/2	GOHT Recycle Gas and Frac. Reboiler Heaters	NO <sub>x</sub>
H850S1	PERC Heater - North Stack	NO <sub>x</sub>
H850S2	PERC Heater - South Stack	NO <sub>x</sub>
H9150R1	Heater	NO <sub>x</sub>
SR3/4STACK	SR-3/4 Incinerator	NO <sub>x</sub>
SR5STACK	SR5 Tail Gas Incinerator	NO <sub>x</sub>
SR6STACK	SR6 Tail Gas Incinerator	NO <sub>x</sub>
SR7STACK	SR7 Tail Gas Incinerator	NO <sub>x</sub>
SR8STACK	SR8 Tail Gas Incinerator	NO <sub>x</sub>

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<b>FINAL EMISSIONS CAP</b>		NO <sub>x</sub>	495.45	1825.00
A10823	CCU CO Analyzer	PM		
A10824	CO Analyzer	PM		
A10825	O <sub>2</sub> Analyzer	PM		
A10502	CCU SNCR NO <sub>x</sub> /SO <sub>2</sub> /O <sub>2</sub> Analyzer	PM		
A162	H5301 O <sub>2</sub> Analyzer	PM		
A180	H5302 O <sub>2</sub> Analyzer	PM		
A236	H5305 O <sub>2</sub> Analyzer	PM		
A34160	CR-3 Furnaces CEMS Analyzer	PM		
A785	H5303 O <sub>2</sub> Analyzer	PM		
A786	H5304 O <sub>2</sub> Analyzer	PM		
AE2340	Octane Testing Engine	PM		
AE2636	Octane Testing Engine	PM		
AE2650	Octane Testing Engine	PM		
AE348	On-line Knock Engine	PM		
AE349	On-line Knock Engine	PM		
AE388	On-line Knock Engine	PM		
AE389	On-line Knock Engine	PM		
AE700	Octane Testing Engine	PM		
CWT10	Cooling Tower No.10 (4)	PM		
CWT11	Cooling Tower No.11 (4)	PM		
CWT12	Cooling Tower No.12 (4)	PM		
CWT14	Cooling Tower No.14 (4)	PM		
CWT15	Cooling Tower No.15 (4)	PM		
CWT16/16A	Cooling Tower No.16/16A (4)	PM		
CWT17	Cooling Tower No.17 (4)	PM		
CWT6	Cooling Tower No.6 (4)	PM		
CWT7	Cooling Tower No.7 (4)	PM		

CWT8	Cooling Tower No.8 (4)	PM
CWT9	Cooling Tower No.9 (4)	PM
FUGCOKEPM1	Coke Pile Wind Erosion Fugitives (4)	PM
FUGCOKEPM1 A	Coke Pile 2 Fugitives (4)	PM
FUGCOKEPM2	Coke Pile Crane Fugitives (4)	PM
FUGCOKEPM3	Coke Crusher Fugitives (4)	PM
FUGCOKEPM4	Coke Crusher Discharge Fugitives (4)	PM
FUGCOKEPM5	Coke Transfer Conveyor Fugitives (4)	PM
FUGCOKEPM6	Coke Conveyor Discharge Fugitives (4)	PM
FUGCOKEPM7	Coke Barge Loading Fugitives (4)	PM
H1000	PLAT2 Heater	PM
H1001	Guard Bed Start-up Heater	PM
H1010	HDU-1 Charge Heater	PM
H1011	HDU-1 Reboiler Heater	PM
H1100	DHT Heater	PM
H1170	CFH Charge Heater	PM
H31001/2	Coker Heaters No. 1 and 2	PM
H31003	Coker Heater No. 3	PM
H3300	DHT H <sub>2</sub> Heater	PM
H36100	CGHT Heater	PM
H5100	DU-2 South Crude Heater	PM
H5101	DU-2 North Crude Heater	PM
H5102	DU-2 South Flasher Charge Heater	PM
H5103	DU-2 North Flasher Charge Heater	PM
H5104	DU-2 Preflash Heater	PM
H5105	DU-2 Preflash2 Heater	PM
H5200	HDU-2 Charge Heater	PM
H53NN	Catalytic Reformer SCR	PM
H5400	SHCU South Charge Heater	PM
H5402	SHCU Reboiler Heater	PM
H5403	SHCU North Charge Heater	PM
H5404	SHCU Post-Frac Heater	PM
H5500A	SMR Heater A	PM
H5500B	SMR Heater B	PM
H5500C	SMR Heater C	PM

H5600	SGP Heat Medium Heater	PM
H613	DU-1 Secondary Pre-Heater	PM
H63000	HVI Column Charge Heater	PM
H70001/2	GOHT Recycle Gas and Frac. Reboiler Heaters	PM
H850S1	PERC Heater - North Stack	PM
H850S2	PERC Heater - South Stack	PM
H9150R1	Heater	PM
PAINTFE	Miscellaneous Painting Fugitives	PM
SR3/4STACK	SR-3/4 Incinerator	PM
SR5STACK	SR5 Tail Gas Incinerator	PM
SR6STACK	SR6 Tail Gas Incinerator	PM
SR7STACK	SR7 Tail Gas Incinerator	PM
SR8STACK	SR8 Tail Gas Incinerator	PM

**FINAL EMISSIONS CAP**

PM

77.13

272.80

A1745	SR-3/4 SO <sub>2</sub> CEMS Analyzer	SO <sub>2</sub>
A10823	CCU CO Analyzer	SO <sub>2</sub>
A10824	CO Analyzer	SO <sub>2</sub>
A10825	O <sub>2</sub> Analyzer	SO <sub>2</sub>
A10502	CCU SNCR NO <sub>x</sub> /SO <sub>2</sub> /O <sub>2</sub> Analyzer	SO <sub>2</sub>
A162	H5301 O <sub>2</sub> Analyzer	SO <sub>2</sub>
A180	H5302 O <sub>2</sub> Analyzer	SO <sub>2</sub>
A236	H5305 O <sub>2</sub> Analyzer	SO <sub>2</sub>
A34160	CR-3 Furnaces CEMS Analyzer	SO <sub>2</sub>
A785	H5303 O <sub>2</sub> Analyzer	SO <sub>2</sub>
A786	H5304 O <sub>2</sub> Analyzer	SO <sub>2</sub>
AE2340	Octane Testing Engine	SO <sub>2</sub>
AE2636	Octane Testing Engine	SO <sub>2</sub>
AE2650	Octane Testing Engine	SO <sub>2</sub>
AE348	On-line Knock Engine	SO <sub>2</sub>
AE349	On-line Knock Engine	SO <sub>2</sub>
AE388	On-line Knock Engine	SO <sub>2</sub>
AE389	On-line Knock Engine	SO <sub>2</sub>
AE700	Octane Testing Engine	SO <sub>2</sub>
FLARECOKE	Coker Flare	SO <sub>2</sub>
FLAREEP	East Property Flare	SO <sub>2</sub>
FLAREGIRB	EP (Girbitol) Flare	SO <sub>2</sub>
FLARELHT	LHT Flare	SO <sub>2</sub>



FLAREN	North Property Flare	SO <sub>2</sub>
FLARE	South Property Flare	SO <sub>2</sub>
FLARE	West Property Flare	SO <sub>2</sub>
H1000	PLAT2 Heater	SO <sub>2</sub>
H1001	Guard Bed Start-up Heater	SO <sub>2</sub>
H1010	HDU-1 Charge Heater	SO <sub>2</sub>
H1011	HDU-1 Reboiler Heater	SO <sub>2</sub>
H1100	DHT Heater	SO <sub>2</sub>
H1170	CFH Charge Heater	SO <sub>2</sub>
H31001/2	Coker Heaters No. 1 and 2	SO <sub>2</sub>
H31003	Coker Heater No. 3	SO <sub>2</sub>
H3300	DHT H <sub>2</sub> Heater	SO <sub>2</sub>
H36100	CGHT Heater	SO <sub>2</sub>
H5100	DU-2 South Crude Heater	SO <sub>2</sub>
H5101	DU-2 North Crude Heater	SO <sub>2</sub>
H5102	DU-2 South Flasher Charge Heater	SO <sub>2</sub>
H5103	DU-2 North Flasher Charge Heater	SO <sub>2</sub>
H5104	DU-2 Preflash Heater	SO <sub>2</sub>
H5105	DU-2 Preflash2 Heater	SO <sub>2</sub>
H5200	HDU-2 Charge Heater	SO <sub>2</sub>
H53NN	Catalytic Reformer SCR	SO <sub>2</sub>
H5400	SHCU South Charge Heater	SO <sub>2</sub>
H5402	SHCU Reboiler Heater	SO <sub>2</sub>
H5403	SHCU North Charge Heater	SO <sub>2</sub>
H5404	SHCU Post-Frac Heater	SO <sub>2</sub>
H5500A	SMR Heater A	SO <sub>2</sub>
H5500B	SMR Heater B	SO <sub>2</sub>
H5500C	SMR Heater C	SO <sub>2</sub>
H5600	SGP Heat Medium Heater	SO <sub>2</sub>
H613	DU-1 Secondary Pre-Heater	SO <sub>2</sub>
H63000	HVI Column Charge Heater	SO <sub>2</sub>
H70001/2	GOHT Recycle Gas and Frac.Reboiler Heaters	SO <sub>2</sub>
H850S1	PERC Heater - North Stack	SO <sub>2</sub>
H850S2	PERC Heater - South Stack	SO <sub>2</sub>
H9150R1	Heater	SO <sub>2</sub>
SR3/4STACK	SR-3/4 Incinerator	SO <sub>2</sub>
SR5STACK	SR5 Tail Gas Incinerator	SO <sub>2</sub>
SR6STACK	SR6 Tail Gas Incinerator	SO <sub>2</sub>
SR7STACK	SR7 Tail Gas Incinerator	SO <sub>2</sub>
SR8STACK	SR8 Tail Gas Incinerator	SO <sub>2</sub>

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	<b>FINAL EMISSIONS CAP</b>	SO <sub>2</sub>	2050.72	5259.84
A1006	H <sub>2</sub> S 4 Point Analyzer	VOC		
A102	Analyzer	VOC		
A1284	Analyzer	VOC		
A1745	SR3/4 SO <sub>2</sub> CEMS Analyzer	VOC		
A1760	Analyzer	VOC		
A213	CR3 Recycle Gas SG Analyzer	VOC		
A214	CR3 Recycle Gas Moisture Analyzer	VOC		
A298	CR3 Regen Gas O <sub>2</sub> Analyzer	VOC		
A300	CR3 Regen Gas Comb. Analyzer	VOC		
A329	CR3 Reactor Inlet O <sub>2</sub> Analyzer	VOC		
A553	Plat2 Rec. Gas Moisture Analyzer	VOC		
A554	Plat2 Rec. Gas Gravity Analyzer	VOC		
A10823	CCU CO Analyzer	VOC		
A10824	CO Analyzer	VOC		
A10825	O <sub>2</sub> Analyzer	VOC		
A1301	PSA Product H <sub>2</sub> Analyzer	VOC		
A1905/6	A 1905/6 Analyzer	VOC		
A89128	Tank SS307 Blanket O <sub>2</sub> Analyzer	VOC		
A842	Tank SS314 Blanket O <sub>2</sub> Analyzer	VOC		
A10502	CCU SNCR NO <sub>x</sub> /SO <sub>2</sub> /O <sub>2</sub> Analyzer	VOC		
A162	H5301 O <sub>2</sub> Analyzer	VOC		
A180	H5302 O <sub>2</sub> Analyzer	VOC		
A236	H5305 O <sub>2</sub> Analyzer	VOC		
A34160	CR-3 Furnaces CEMS Analyzer	VOC		
A785	H5303 O <sub>2</sub> Analyzer	VOC		
A786	H5304 O <sub>2</sub> Analyzer	VOC		
AE2340	Octane Testing Engine	VOC		
AE2636	Octane Testing Engine	VOC		
AE2650	Octane Testing Engine	VOC		
AE348	On-line Knock Engine	VOC		

AE349	On-line Knock Engine	VOC
AE388	On-line Knock Engine	VOC
AE389	On-line Knock Engine	VOC
AE700	Octane Testing Engine	VOC
AE768	Octane Testing Engine	VOC
AP1	AP1 Storage Tank	VOC
AP16	AP16 Storage Tank	VOC
AP17	AP17 Storage Tank	VOC
AP2	AP2 Storage Tank	VOC
AP4	AP4 Storage Tank	VOC
AP5	AP5 Storage Tank	VOC
AP6	AP6 Storage Tank	VOC
AP7	AP7 Storage Tank	VOC
AP8	AP8 Storage Tank	VOC
AYARDOWS	WW - Sewer A Yard Oily Water	VOC
BARGE	Marine Loading - Barge Docks	VOC
BENZENE1	Marine Loading - Benzene Dock 1	VOC
BENZENE2	Marine Loading - Benzene Dock 2	VOC
BENZENE4	Marine Loading - Benzene Dock 4	VOC
BYARDOWS	WW - Sewer B Yard Oily Water	VOC
C9150/51	C9150/51 Vent	VOC
C9152/53	C9152/53 Vent	VOC
CCLP	WW - Cat Cracker Lube Plant	VOC
CPI1	WW- CPI Oil Water Separator	VOC
CPI2	WW- CPI Oil Water Separator	VOC
CRUDE	Marine Loading - Crude Docks	VOC
CWT10	Cooling Tower No. 10 (4)	VOC
CWT11	Cooling Tower No. 11 (4)	VOC
CWT12	Cooling Tower No. 12 (4)	VOC
CWT14	Cooling Tower No. 14 (4)	VOC
CWT15	Cooling Tower No. 15 (4)	VOC
CWT16/16A	Cooling Tower No. 16/16A (4)	VOC

CWT17	Cooling Tower No. 17 (4)	VOC
CWT6	Cooling Tower No. 6 (4)	VOC
CWT7	Cooling Tower No. 7 (4)	VOC
CWT8	Cooling Tower No. 8 (4)	VOC
CWT9	Cooling Tower No. 9 (4)	VOC
CYARDOWS	Wastewater Fugitives (4)	VOC
D363	FTXNK2/ANTIICANT StorageTank	VOC
DAOWS	WW - Sewer DA Oily Water	VOC
DD2	WW - Dispatching Distilling 2	VOC
DOCK1	Marine Loading - Dock 1	VOC
DOCK2	Marine Loading - Dock 2	VOC
DOCK4	Marine Loading - Dock 4	VOC
DOCKS	Dock Wastewater Collection	VOC
DW103	DW103 Storage Tank	VOC
DW104	DW104 Storage Tank	VOC
DYARDOWS	WW - Sewer D Yard Oily Water	VOC
F314	F314 Storage Tank	VOC
F315	F315 Storage Tank	VOC
F316	F316 Storage Tank	VOC
F317	F317 Storage Tank	VOC
F325	F325 Storage Tank	VOC
F326	F326 Storage Tank	VOC
F338	F338 Storage Tank	VOC
F364	F364 Storage Tank	VOC
F365	F365 Storage Tank	VOC
F366	F366 Storage Tank	VOC
F367	F367 Storage Tank	VOC
FLARECCU	CCU Flare	VOC
FLARECOKE	Coker Flare	VOC
FLAREEP	East Property Flare	VOC
FLAREGIRB	EP (Girbitol) Flare	VOC
FLARELHT	LHT Flare	VOC
FLARENP	North Property Flare	VOC
FLARESOUTH	South Property Flare	VOC
FLAREWP	West Property Flare	VOC
FP182	FP182 Storage Tank	VOC
FP190	FP190 Storage Tank	VOC
FP194	FP194 Storage Tank	VOC
FP195	FP195 Storage Tank	VOC
FP200	FP200 Storage Tank	VOC
FUGALKY	Alky Fugitives (4)	VOC

FUGAYARD	Fugitives (4)	VOC
FUGCCU	FCCU Fugitives (4)	VOC
FUGCFH	CFH Fugitives (4)	VOC
FUGCGHT	CGHT Fugitives (4)	VOC
FUGCOKER	Coke Handling Fugitives (4)	VOC
FUGCPU	CPU Fugitives (4)	VOC
FUGCR3	CR3 Fugitives (4)	VOC
FUGCR3TF	Hydroprocessing Tank Farm Fugitives (4)	VOC
FUGDHT	DHT Fugitives (4)	VOC
FUGDISP	DISP Fugitive	VOC
FUGDOCK	Dock Fugitives (4)	VOC
FUGDU1	DU1 Fugitives (4)	VOC
FUGDU2	DU2 Fugitives (4)	VOC
FUGDU2B	DU3 Fugitives (4)	VOC
FUGENVN	Environmental North Fugitives (4)	VOC
FUGGASTR	GASTR Fugitives (4)	VOC
FUGGFRAC	GFRAC Fugitives (4)	VOC
FUGGIRBIT	Girbitol Fugitives (4)	VOC
FUGGOHT	GOHT Fugitives (4)	VOC
FUGGR	GR Fugitives (4)	VOC
FUGGR200	GR200 Fugitives (4)	VOC
FUGHDU1	HDU1 Fugitives (4)	VOC
FUGHP1	HP1 Fugitives (4)	VOC
FUGLHT2	LHT2 Fugitives (4)	VOC
FUGMTBE	MTBE Fugitives (4)	VOC
FUGPLAT2	PLAT2 Fugitives (4)	VOC
FUGPOSTFRA C	POSTFRAC Fugitives (4)	VOC
FUGPSA	PSA Fugitives (4)	VOC
FUGSGP	SGP Fugitives (4)	VOC
FUGSHCU	SHCU Fugitives (4)	VOC
FUGSR3/4	SR3/4 Fugitives (4)	VOC
FUGSR5	SR5 Fugitives (4)	VOC
FUGSR6	SR6 Fugitives (4)	VOC
FUGSR7	SR7 Fugitives (4)	VOC
FUGSR8	SR8 Fugitives (4)	VOC
FUGTHCR	Thermal Cracking Fugitives (4)	VOC
FUGWBT	West Blend Tank Fugitives (4)	VOC
G308	G308 Storage Tank	VOC

G309	G309 Storage Tank	VOC
G310	G310 Storage Tank	VOC
G311	G311 Storage Tank	VOC
G313	G313 Storage Tank	VOC
G314	G314 Storage Tank	VOC
G315	G315 Storage Tank	VOC
G316	G316 Storage Tank	VOC
G317	G317 Storage Tank	VOC
G319	G319 Storage Tank	VOC
G320	G320 Storage Tank	VOC
G322	G322 Storage Tank	VOC
G323	G323 Storage Tank	VOC
G326	G326 Storage Tank	VOC
G327	G327 Storage Tank	VOC
G328	G328 Storage Tank	VOC
G329	G329 Storage Tank	VOC
G332	G332 Storage Tank	VOC
G342	G342 Storage Tank	VOC
G345	G345 Storage Tank	VOC
G346	G346 Storage Tank	VOC
G347	G347 Storage Tank	VOC
G348	G348 Storage Tank	VOC
G352	G352 Storage Tank	VOC
G354	G354 Storage Tank	VOC
G355	G355 Storage Tank	VOC
G356	G356 Storage Tank	VOC
G357	G357 Storage Tank	VOC
G358	G358 Storage Tank	VOC
G360	G360 Storage Tank	VOC
G361	G361 Storage Tank	VOC
GIRBOTWW	WW Collection in Girbitol	VOC
H1000	PLAT2 Heater	VOC
H1001	Guard Bed Start-up Heater	VOC
H1010	HDU-1 Charge Heater	VOC
H1011	HDU-1 Reboiler Heater	VOC
H1100	DHT Heater	VOC
H1170	CFH Charge Heater	VOC
H31001/2	Coker Heaters No. 1 and 2	VOC
H31003	Coker Heater No. 3	VOC
H3300	DHT H <sub>2</sub> Heater	VOC
H36100	CGHT Heater	VOC
H5100	DU-2 South Crude Heater	VOC
H5101	DU-2 North Crude Heater	VOC

H5102	DU-2 South Flasher Charge Heater	VOC
H5103	DU-2 North Flasher Charge Heater	VOC
H5104	DU-2 Preflash Heater	VOC
H5105	DU-2 Preflash2 Heater	VOC
H5200	HCU-2 Charge Heater	VOC
H53NN	Catalytic Reformer SCR	VOC
H5400	SHCU South Charge Heater	VOC
H5402	SHCU Reboiler Heater	VOC
H5403	SHCU North Charge Heater	VOC
H5404	SHCU Post-Frac Heater	VOC
H5500A	SMR Heater A	VOC
H5500B	SMR Heater B	VOC
H5500C	SMR Heater C	VOC
H5600	SGP Heat Medium Heater	VOC
H613	DU-1 Secondary Pre-Heater	VOC
H63000	HVI Column Charge Heater	VOC
H70001/2	GOHT Recycle Gas and Frac. Reboiler Heaters	VOC
H850S1	PERC Heater - North Stack	VOC
H850S2	PERC Heater - South Stack	VOC
H9150R1	Heater	VOC
HVIOWS	WW - Sewer HVI Oily Water	VOC
J301B	J301B Storage Tank	VOC
J302B	J302B Storage Tank	VOC
J303B	J303B Storage Tank	VOC
J304	J304 Storage Tank	VOC
J305B	J305B Storage Tank	VOC
J306	J306 Storage Tank	VOC
J308	J308 Storage Tank	VOC
J309	J309 Storage Tank	VOC
J311	J311 Storage Tank	VOC
J312	J312 Storage Tank	VOC
J315	J315 Storage Tank	VOC
J316	J316 Storage Tank	VOC
J317	J317 Storage Tank	VOC
J318B	J318B Storage Tank	VOC
J320	J320 Storage Tank	VOC
J322	J322 Storage Tank	VOC
J323	J323 Storage Tank	VOC
J324	J324 Storage Tank	VOC
J325	J325 Storage Tank	VOC

J326	J326 Storage Tank	VOC
J327	J327 Storage Tank	VOC
J328	J328 Storage Tank	VOC
J329	J329 Storage Tank	VOC
J330	J330 Storage Tank	VOC
J331	J331 Storage Tank	VOC
J332	J332 Storage Tank	VOC
J336	J336 Storage Tank	VOC
J337	J337 Storage Tank	VOC
J338	J338 Storage Tank	VOC
J340	J340 Storage Tank	VOC
J348	J348 Storage Tank	VOC
J349	J349 Storage Tank	VOC
K301	K301 Storage Tank	VOC
K302	K302 Storage Tank	VOC
K303	K303 Storage Tank	VOC
K304	K304 Storage Tank	VOC
K306	K306 Storage Tank	VOC
K310	K310 Storage Tank	VOC
K311	K311 Storage Tank	VOC
L2COMPVT	L2COMPVT Vent	VOC
LEUOWS	WW - Sewer LEU Oily Water	VOC
LHT1OWS	WW - Sewer LHT1 Oily Water	VOC
LHT2OWS	WW - Sewer LHT2 Oily Water	VOC
LOADOWS	WW - Sewer Loading Racks	VOC
M301	Marine Fuel Oil Storage Tank	VOC
M302	Marine Diesel Storage Tank	VOC
MANHOLE4	WW - Manhole 4	VOC
MVIDEASS	WW - Sewer DEA	VOC
MVIOWS	WW - Sewer MVI Oily Water	VOC
N92252	X4H DU1 Storage Tank	VOC
NAB	North Aeration Basin	VOC
NDAF	WW - North DAF Unit	VOC
NONE2	FXTNK2/Amine Neutralizer Storage Tank	VOC
NONE3	FXTNK2/Filmer Storage Tank	VOC
OWATCTF	WW - Alky Tank Farm Oily Water	VOC
OWDU1	WW - Sewer Oily Water HUB	VOC



OWFLEX	Wastewater Collection System	VOC
PAINTFE	Miscellaneous Painting Fugitives	VOC
RKLBLEND	Load	VOC
RKLDIALA	Load	VOC
RKLTC	Load	VOC
RKLTC/TT	Load	VOC
RKLTCTTU	Load	VOC
S302	S302 Storage Tank	VOC
S305	S305 Storage Tank	VOC
S306	S306 Storage Tank	VOC
S307	S307 Storage Tank	VOC
S310	S310 Storage Tank	VOC
S312	S312 Storage Tank	VOC
S313	S313 Storage Tank	VOC
S318	S318 Storage Tank	VOC
S325	S325 Storage Tank	VOC
S326	S326 Storage Tank	VOC
S339	S339 Storage Tank	VOC
S348	S348 Storage Tank	VOC
S359	S359 Storage Tank	VOC
S360	S360 Storage Tank	VOC
S395	S395 Storage Tank	VOC
S401	S401 Storage Tank	VOC
S402	S402 Storage Tank	VOC
S412	S412 Storage Tank	VOC
S429	S429 Storage Tank	VOC
S430	S430 Storage Tank	VOC
SAB	South Aeration Basin	VOC
SDAF	WW - South DAF Unit	VOC
SR3/4PIT	SR3/4 Sulfur Pit	VOC
SR3/4STACK	SR3/4 Incinerator	VOC
SR3/4WW	SR3/4 Wastewater Collection	VOC
SR5L01	SR5 Loading rack	VOC
SR5L02	SR5 Loading rack	VOC
SR5STACK	SR5 Tail Gas Incinerator	VOC
SR6STACK	SR6 Tail Gas Incinerator	VOC
SR7STACK	SR7 Tail Gas Incinerator	VOC
SR8STACK	SR8 Tail Gas Incinerator	VOC
SRTT	SR3/4 Loading Rack	VOC
SS306	SS306 Storage Tank	VOC
SS307	SS307 Storage Tank	VOC

SS308	SS308 Storage Tank	VOC
SS312	SS312 Storage Tank	VOC
SS314	SS314 Storage Tank	VOC
SS316	SS316 Storage Tank	VOC
SS324	SS324 Storage Tank	VOC
SS325	SS325 Storage Tank	VOC
SS335	SS335 Storage Tank	VOC
SS339	SS339 Storage Tank	VOC
SS341	SS341 Storage Tank	VOC
SS343	SS343 Storage Tank	VOC
SS344	SS344 Storage Tank	VOC
SS348	SS348 Storage Tank	VOC
SS364	SS364 Storage Tank	VOC
SS375	SS375 Storage Tank	VOC
SS376	SS376 Storage Tank	VOC
SS377	SS377 Storage Tank	VOC
SS378	SS378 Storage Tank	VOC
SS379	SS379 Storage Tank	VOC
SS388	SS388 Storage Tank	VOC
SS396	SS396 Storage Tank	VOC
SS403	SS403 Storage Tank	VOC
SS425	SS425 Storage Tank	VOC
ST1400	X2H DU1 Storage Tank	VOC
SULFUR	SR5 Sulfur Pit	VOC
T1211	T1211 Storage Tank	VOC
T1212	T1212 Storage Tank	VOC
T1710	T1710 Storage Tank	VOC
T1F323	T1F323 Storage Tank	VOC
T1F324	T1F324 Storage Tank	VOC
T1F329	T1F329 Storage Tank	VOC
T1F330	T1F330 Storage Tank	VOC
T1F348	T1F348 Storage Tank	VOC
T301	T301 Storage Tank	VOC
T302	T302 EXTFLT Refinery WW Storage Tank	VOC
T315	T315 Storage Tank	VOC
T316	Methanol Storage Tank	VOC
T59	T59 FXTNK2/SOAP Storage Tank	VOC
T93002	T93002 DEA Storage Tank	VOC
T93402	T93402 MDEA Storage Tank	VOC
TA301	TA301 Storage Tank	VOC
TA305	TA305 Storage Tank	VOC

TA306	TA306 Storage Tank	VOC
TA307	TA307 Storage Tank	VOC
TA308	TA308 Storage Tank	VOC
TA309	TA309 Storage Tank	VOC
TA310	TA310 Storage Tank	VOC
TA312	TA312 Storage Tank	VOC
TA313	TA313 Storage Tank	VOC
TA315	TA315 Storage Tank	VOC
TA316	TA316 Storage Tank	VOC
TA317	TA317 Storage Tank	VOC
TA318	TA318 Storage Tank	VOC
TA319	TA319 Storage Tank	VOC
TA320	TA320 Storage Tank	VOC
TA321	TA321 Storage Tank	VOC
TA322	TA322 Storage Tank	VOC
TA324	TA324 Storage Tank	VOC
TA325	TA325 Storage Tank	VOC
TA326	TA326 Storage Tank	VOC
TA329	TA329 Storage Tank	VOC
TA330	TA330 Storage Tank	VOC
TA331	TA331 Storage Tank	VOC
TA332	TA332 Storage Tank	VOC
TA334	TA334 Storage Tank	VOC
TC and G	WW - Thermal Cracking and Gas Treating	VOC
TCACIDLOAD	Acid Tank Car Loading	VOC
TG324	TG324 Storage Tank	VOC
TG362	TG362 Storage Tank	VOC
TJ333	TJ333 Storage Tank	VOC
TJ334	TJ334 Storage Tank	VOC
TJ335	TJ335 Storage Tank	VOC
TJ339R1	TJ339R1 Storage Tank	VOC
TK305	TK305 Storage Tank	VOC
TRKLFIL	WW - Trickle Filter	VOC
TRKLSMP	WW - Trickle Sump	VOC
U301	U301 Storage Tank	VOC
U302	U302 Storage Tank	VOC
V1111	V1111 Storage Tank	VOC
V54	Vessel/Regen Gas KO Pot	VOC
V5527	Column in HP1	VOC
V9160	Vent V9160	VOC
VA03	VA03 Storage Tank	VOC
VA04	VA04 Storage Tank	VOC

WAXPTOWS	WW - Sewer Wax Plant Oily Water	VOC
WAXPTWAX	WW - Sewer Wax Plant Wax	VOC
WX285	WX285 Storage Tank	VOC
X2HDU1	FXTNK2/X2HDU1 Storage Tank	VOC
X311	INTFLT/Amine Solutions Storage Tank	VOC
X312	INTFLT/Amine Solutions Storage Tank	VOC
X313	INTFLT/Slop Oil Storage Tank	VOC
X315	Ballast Water Storage Tank	VOC
X316	WW - DAF Float	VOC
X320	Ballast Water O/S Storage Tank	VOC
X321	Slop Oil Storage Tank	VOC
X322	X322 Storage Tank	VOC
X323	X323 Storage Tank	VOC
X324	FXTNK2/Misc Organic Storage Tank	VOC
X325	FXTNK2/Misc Organic Storage Tank	VOC
X326	FXTNK2/DAF Float Storage Tank	VOC
X327	FXTNK2/DAF Float Storage Tank	VOC
X328	FXTNK2/Misc Organic Storage Tank	VOC
X330	WW - Equalization Tank	VOC
X330SM	WW - Sump	VOC

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	<b>FINAL EMISSIONS CAP</b>	VOC	1877.69	2846.90
V5518	Hydrogen Plant Vent	CO (5) VOC	22.14 14.79	96.98 53.98
H600	CCU CO Boiler	CO NH <sub>3</sub> NO <sub>x</sub> PM SO <sub>2</sub> VOC	346.32 5.25 56.88 66.00 593.48 3.20	1402.62 23.02 124.56 289.08 216.62 14.02

**Planned Maintenance, Startup, and Shutdown (MSS) Emission Rate Limits**


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RUDESD	Shutdown of DU-2, VF-3, VF-4, HDU-2	Benzene
COKERSD	Shutdown of Cokers, GOHT	Benzene
SGPSD	Shutdown of SGP	Benzene
SULFURSD	Shutdown of Sulfur Block	Benzene
SHCUSD	Shutdown of SHCU	Benzene
HP1SDSU	Shutdown/Startup of HP-1	Benzene
DPREFSDSU	Shutdown/Startup of Other Units	Benzene
FLNFLARE	North Property Flare	Benzene
COKE FLARE	Coker Flare	Benzene
WP FLARE	West Property Flare	Benzene
EP FLARE	East Property Flare	Benzene
TA324	MAYA Crude	Benzene
TA325	DU1 Crude	Benzene
TA326	DU1 Crude	Benzene
F364	MTBE, 100%	Benzene
TG362	MAYA Crude	Benzene
TA329	MAYA Crude	Benzene
TA330	MAYA Crude	Benzene
TA331	MAYA Crude	Benzene
TA332	MAYA Crude	Benzene
TA334	MAYA Crude	Benzene
G313	Gasoline (RU2000)	Benzene
G315	Gasoline (RU2000)	Benzene
G323	Gasoline (RU2000)	Benzene
G326	Gasoline (RU2000)	Benzene
G327	Gasoline (RU2000)	Benzene
FUGABRBLST	Abrasive Blasting: Sitewide	Benzene
AEROSDISP	Aerosol Can Crushing and Disposal	Benzene
AEROSAPPL	Aerosol Can Application: Paint and Solvents	Benzene
DEGREAS01	Chemical Cleaning - Degreaser Units	Benzene

FUGSMPDPR	Process Sampling	Benzene		
FUGMSSDPR	Fugitive Components			
	Associated with Maintenance	Benzene		
	Vacuum Truck Loading &			
FUGVACDPR	Unloading	Benzene		
PAINTFE	Painting Emissions Sitewide	Benzene		
	Combustion Device Decoking	Benzene		
	Pump and Minor Process			
MSSDECNDPR	Decontamination	Benzene		
	Forced Ventilation of Tank			
TNKVENT	w/Residual	Benzene		
	<b>MSS-CAP</b>	Benzene	19.80	0.78
	Shutdown of DU-2, VF-3, VF-			
CRUDES	4, HDU-2	CO		
COKERS	Shutdown of Cokers, GOHT	CO		
SGPS	Shutdown of SGP	CO		
SULFURS	Shutdown of Sulfur Block	CO		
SHCUS	Shutdown of SHCU	CO		
HP1SDSU	Shutdown/Startup of HP-1	CO		
	Shutdown/Startup of Other			
DPREFSDSU	Units	CO		
FLNFLARE	North Property Flare	CO		
COKE FLARE	Coker Flare	CO		
WP FLARE	West Property Flare	CO		
EP FLARE	East Property Flare	CO		
TA324	MAYA Crude	CO		
TA325	DU1 Crude	CO		
TA326	DU1 Crude	CO		
F364	MTBE, 100%	CO		
TG362	MAYA Crude	CO		
TA329	MAYA Crude	CO		
TA330	MAYA Crude	CO		
TA331	MAYA Crude	CO		
TA332	MAYA Crude	CO		
TA334	MAYA Crude	CO		
G313	Gasoline (RU2000)	CO		

G315	Gasoline (RU2000)	CO		
G323	Gasoline (RU2000)	CO		
G326	Gasoline (RU2000)	CO		
G327	Gasoline (RU2000)	CO		
FUGABRBLST	Abrasive Blasting: Sitewide	CO		
AEROSDISP	Aerosol Can Crushing and Disposal	CO		
AEROSAPPL	Aerosol Can Application: Paint and Solvents	CO		
DEGREAS01	Chemical Cleaning - Degreaser Units	CO		
FUGSMPDPR	Process Sampling	CO		
FUGMSSDPR	Fugitive Components Associated with Maintenance	CO		
FUGVACDPR	Vacuum Truck Loading & Unloading	CO		
PAINTFE	Painting Emissions Sitewide	CO		
	Combustion Device Decoking	CO		
	Pump and Minor Process			
MSSDECNDPR	Decontamination	CO		
	Forced Ventilation of Tank			
TNKVENT	w/Residual	CO		
	<b>MSS-CAP</b>	CO	199.70	11.46
CRUDES	Shutdown of DU-2, VF-3, VF-4, HDU-2	H <sub>2</sub> S		
COKERS	Shutdown of Cokers, GOHT	H <sub>2</sub> S		
SGPS	Shutdown of SGP	H <sub>2</sub> S		
SULFURSD	Shutdown of Sulfur Block	H <sub>2</sub> S		
SHCUSD	Shutdown of SHCU	H <sub>2</sub> S		
HP1SDSU	Shutdown/Startup of HP-1	H <sub>2</sub> S		
	Shutdown/Startup of Other			
DPREFSDSU	Units	H <sub>2</sub> S		
FLNFLARE	North Property Flare	H <sub>2</sub> S		
COKE FLARE	Coker Flare	H <sub>2</sub> S		
WP FLARE	West Property Flare	H <sub>2</sub> S		
EP FLARE	East Property Flare	H <sub>2</sub> S		
TA324	MAYA Crude	H <sub>2</sub> S		

TA325	DU1 Crude	H <sub>2</sub> S		
TA326	DU1 Crude	H <sub>2</sub> S		
F364	MTBE, 100%	H <sub>2</sub> S		
TG362	MAYA Crude	H <sub>2</sub> S		
TA329	MAYA Crude	H <sub>2</sub> S		
TA330	MAYA Crude	H <sub>2</sub> S		
TA331	MAYA Crude	H <sub>2</sub> S		
TA332	MAYA Crude	H <sub>2</sub> S		
TA334	MAYA Crude	H <sub>2</sub> S		
G313	Gasoline (RU2000)	H <sub>2</sub> S		
G315	Gasoline (RU2000)	H <sub>2</sub> S		
G323	Gasoline (RU2000)	H <sub>2</sub> S		
G326	Gasoline (RU2000)	H <sub>2</sub> S		
G327	Gasoline (RU2000)	H <sub>2</sub> S		
FUGABRBLST	Abrasive Blasting: Sitewide	H <sub>2</sub> S		
AEROSDISP	Aerosol Can Crushing and Disposal	H <sub>2</sub> S		
AEROSAPPL	Aerosol Can Application: Paint and Solvents	H <sub>2</sub> S		
DEGREAS01	Chemical Cleaning - Degreaser Units	H <sub>2</sub> S		
FUGSMPDPR	Process Sampling	H <sub>2</sub> S		
FUGMSSDPR	Fugitive Components Associated with Maintenance	H <sub>2</sub> S		
FUGVACDPR	Vacuum Truck Loading & Unloading	H <sub>2</sub> S		
PAINTFE	Painting Emissions Sitewide	H <sub>2</sub> S		
	Combustion Device			
	Decoking	H <sub>2</sub> S		
	Pump and Minor Process			
MSSDECNDPR	Decontamination	H <sub>2</sub> S		
TNKVENT	Forced Ventilation of Tank w/Residual	H <sub>2</sub> S		
	<b>MSS-CAP</b>	H <sub>2</sub> S	59.86	2.43
CRUDES	Shutdown of DU-2, VF-3, VF-4, HDU-2	NO <sub>x</sub>		
COKERS	Shutdown of Cokers, GOHT	NO <sub>x</sub>		



SGPSD	Shutdown of SGP	NO <sub>x</sub>
SULFURSD	Shutdown of Sulfur Block	NO <sub>x</sub>
SHCUSD	Shutdown of SHCU	NO <sub>x</sub>
HP1SDSU	Shutdown/Startup of HP-1	NO <sub>x</sub>
DPREFSDSU	Shutdown/Startup of Other Units	NO <sub>x</sub>
FLNFLARE	North Property Flare	NO <sub>x</sub>
COKE FLARE	Coker Flare	NO <sub>x</sub>
WP FLARE	West Property Flare	NO <sub>x</sub>
EP FLARE	East Property Flare	NO <sub>x</sub>
TA324	MAYA Crude	NO <sub>x</sub>
TA325	DU1 Crude	NO <sub>x</sub>
TA326	DU1 Crude	NO <sub>x</sub>
F364	MTBE, 100%	NO <sub>x</sub>
TG362	MAYA Crude	NO <sub>x</sub>
TA329	MAYA Crude	NO <sub>x</sub>
TA330	MAYA Crude	NO <sub>x</sub>
TA331	MAYA Crude	NO <sub>x</sub>
TA332	MAYA Crude	NO <sub>x</sub>
TA334	MAYA Crude	NO <sub>x</sub>
G313	Gasoline (RU2000)	NO <sub>x</sub>
G315	Gasoline (RU2000)	NO <sub>x</sub>
G323	Gasoline (RU2000)	NO <sub>x</sub>
G326	Gasoline (RU2000)	NO <sub>x</sub>
G327	Gasoline (RU2000)	NO <sub>x</sub>
FUGABRBLST	Abrasive Blasting: Sitewide	NO <sub>x</sub>
AEROSDISP	Aerosol Can Crushing and Disposal	NO <sub>x</sub>
AEROSAPPL	Aerosol Can Application: Paint and Solvents	NO <sub>x</sub>
DEGREAS01	Chemical Cleaning - Degreaser Units	NO <sub>x</sub>
FUGSMPDPR	Process Sampling	NO <sub>x</sub>
FUGMSSDPR	Fugitive Components Associated with Maintenance	NO <sub>x</sub>
FUGVACDPR	Vacuum Truck Loading & Unloading	NO <sub>x</sub>
PAINTFE	Painting Emissions Sitewide	NO <sub>x</sub>

	Combustion Device			
	Decoking	NO <sub>x</sub>		
MSSDECNDPR	Pump and Minor Process Decontamination	NO <sub>x</sub>		
TNKVENT	Forced Ventilation of Tank w/Residual	NO <sub>x</sub>		
	<b>MSS-CAP</b>	NO <sub>x</sub>	14.77	0.70
CRUDES	Shutdown of DU-2, VF-3, VF- 4, HDU-2	PM		
COKERS	Shutdown of Cokers, GOHT	PM		
SGPS	Shutdown of SGP	PM		
SULFURS	Shutdown of Sulfur Block	PM		
SHCUS	Shutdown of SHCU	PM		
HP1SDSU	Shutdown/Startup of HP-1	PM		
DPREFSDSU	Shutdown/Startup of Other Units	PM		
FLNFLARE	North Property Flare	PM		
COKE FLARE	Coker Flare	PM		
WP FLARE	West Property Flare	PM		
EP FLARE	East Property Flare	PM		
TA324	MAYA Crude	PM		
TA325	DU1 Crude	PM		
TA326	DU1 Crude	PM		
F364	MTBE, 100%	PM		
TG362	MAYA Crude	PM		
TA329	MAYA Crude	PM		
TA330	MAYA Crude	PM		
TA331	MAYA Crude	PM		
TA332	MAYA Crude	PM		
TA334	MAYA Crude	PM		
G313	Gasoline (RU2000)	PM		
G315	Gasoline (RU2000)	PM		
G323	Gasoline (RU2000)	PM		
G326	Gasoline (RU2000)	PM		
G327	Gasoline (RU2000)	PM		
FUGABRBLST	Abrasive Blasting: Sitewide	PM		

AEROSDISP	Aerosol Can Crushing and Disposal	PM		
AEROSAPPL	Aerosol Can Application: Paint and Solvents	PM		
DEGREAS01	Chemical Cleaning - Degreaser Units	PM		
FUGSMPDPR	Process Sampling	PM		
FUGMSSDPR	Fugitive Components Associated with Maintenance	PM		
FUGVACDPR	Vacuum Truck Loading & Unloading	PM		
PAINTFE	Painting Emissions Sitewide	PM		
	Combustion Device			
	Decoking	PM		
	Pump and Minor Process			
MSSDECNDPR	Decontamination	PM		
TNKVENT	Forced Ventilation of Tank w/Residual	PM		
	<b>MSS-CAP</b>	PM	18.31	12.43
CRUDES	Shutdown of DU-2, VF-3, VF-4, HDU-2	SO <sub>2</sub>		
COKERS	Shutdown of Cokers, GOHT	SO <sub>2</sub>		
SGPS	Shutdown of SGP	SO <sub>2</sub>		
SULFURS	Shutdown of Sulfur Block	SO <sub>2</sub>		
SHCUS	Shutdown of SHCU	SO <sub>2</sub>		
HP1SDSU	Shutdown/Startup of HP-1	SO <sub>2</sub>		
	Shutdown/Startup of Other			
DPREFSDSU	Units	SO <sub>2</sub>		
FLNFLARE	North Property Flare	SO <sub>2</sub>		
COKE FLARE	Coker Flare	SO <sub>2</sub>		
WP FLARE	West Property Flare	SO <sub>2</sub>		
EP FLARE	East Property Flare	SO <sub>2</sub>		
TA324	MAYA Crude	SO <sub>2</sub>		
TA325	DU1 Crude	SO <sub>2</sub>		
TA326	DU1 Crude	SO <sub>2</sub>		
F364	MTBE, 100%	SO <sub>2</sub>		
TG362	MAYA Crude	SO <sub>2</sub>		

TA329	MAYA Crude	SO <sub>2</sub>		
TA330	MAYA Crude	SO <sub>2</sub>		
TA331	MAYA Crude	SO <sub>2</sub>		
TA332	MAYA Crude	SO <sub>2</sub>		
TA334	MAYA Crude	SO <sub>2</sub>		
G313	Gasoline (RU2000)	SO <sub>2</sub>		
G315	Gasoline (RU2000)	SO <sub>2</sub>		
G323	Gasoline (RU2000)	SO <sub>2</sub>		
G326	Gasoline (RU2000)	SO <sub>2</sub>		
G327	Gasoline (RU2000)	SO <sub>2</sub>		
FUGABRBLST	Abrasive Blasting: Sitewide	SO <sub>2</sub>		
AEROSDISP	Aerosol Can Crushing and Disposal	SO <sub>2</sub>		
AEROSAPPL	Aerosol Can Application: Paint and Solvents	SO <sub>2</sub>		
DEGREAS01	Chemical Cleaning - Degreaser Units	SO <sub>2</sub>		
FUGSMPDPR	Process Sampling	SO <sub>2</sub>		
FUGMSSDPR	Fugitive Components Associated with Maintenance	SO <sub>2</sub>		
FUGVACDPR	Vacuum Truck Loading & Unloading	SO <sub>2</sub>		
PAINTFE	Painting Emissions Sitewide	SO <sub>2</sub>		
	Combustion Device			
	Decoking	SO <sub>2</sub>		
	Pump and Minor Process			
MSSDECNDPR	Decontamination	SO <sub>2</sub>		
TNKVENT	Forced Ventilation of Tank w/Residual	SO <sub>2</sub>		
	<b>MSS-CAP</b>	SO <sub>2</sub>	1560.81	46.29
CRUDES	Shutdown of DU-2, VF-3, VF-4, HDU-2	VOC		
COKERS	Shutdown of Cokers, GOHT	VOC		
SGPS	Shutdown of SGP	VOC		
SULFURS	Shutdown of Sulfur Block	VOC		
SHCUS	Shutdown of SHCU	VOC		
HP1SDSU	Shutdown/Startup of HP-1	VOC		

DPREFSDSU	Shutdown/Startup of Other Units	VOC
FLNFLARE	North Property Flare	VOC
COKE FLARE	Coker Flare	VOC
WP FLARE	West Property Flare	VOC
EP FLARE	East Property Flare	VOC
TA324	MAYA Crude	VOC
TA325	DU1 Crude	VOC
TA326	DU1 Crude	VOC
F364	MTBE, 100%	VOC
TG362	MAYA Crude	VOC
TA329	MAYA Crude	VOC
TA330	MAYA Crude	VOC
TA331	MAYA Crude	VOC
TA332	MAYA Crude	VOC
TA334	MAYA Crude	VOC
G313	Gasoline (RU2000)	VOC
G315	Gasoline (RU2000)	VOC
G323	Gasoline (RU2000)	VOC
G326	Gasoline (RU2000)	VOC
G327	Gasoline (RU2000)	VOC
FUGABRBLST	Abrasive Blasting: Sitewide	VOC
AEROSDISP	Aerosol Can Crushing and Disposal	VOC
AEROSAPPL	Aerosol Can Application: Paint and Solvents	VOC
DEGREAS01	Chemical Cleaning - Degreaser Units	VOC
FUGSMPDPR	Process Sampling	VOC
FUGMSSDPR	Fugitive Components Associated with Maintenance	VOC
FUGVACDPR	Vacuum Truck Loading & Unloading	VOC
PAINTFE	Painting Emissions Sitewide	VOC
	Combustion Device	
	Decoking	VOC
MSSDECNDPR	Pump and Minor Process Decontamination	VOC
TNKVENT	Forced Ventilation of Tank	VOC

w/Residual

**MSS-CAP**

VOC

2588.61

61.08

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3)

CO	-	carbon monoxide
H <sub>2</sub> S	-	hydrogen sulfide
NH <sub>3</sub>	-	ammonia
NO <sub>x</sub>	-	nitrogen oxides
PM	-	particulate matter, suspended in the atmosphere, including PM <sub>10</sub>
PM <sub>10</sub>	-	particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
SO <sub>2</sub>	-	sulfur dioxide
VOC	-	volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) In the Amendment submitted June 23, 2009, existing CO emissions from EPN V5518 were permitted and offset by a decrease in the EPN H600 long-term CO cap contribution. For normal operational requirements, the short-term cap was left unchanged. The remainder of the CO limit from H600 was removed from the cap and added as an individual limit.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day \_\_\_\_ Days/week \_\_\_\_ Weeks/year \_\_\_\_ or Hrs/year 8,760

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated: January 27, 2011