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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 Ai	r Contaminant	Emission R	<u>ates *</u>
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
7-2-2	Fugitives (4)	VOC NH ₃	1.68 0.51	7.37 2.22
7-2-3	Truck Loading	VOC	0.34	0.08
7-2-4	Rail Loading	VOC	2.80	0.07
7-2-5	T-12 Overhead Drum	VOC	0.045	0.18
7-2-6	Dehydro Methane Burner	CO NO _x PM ₁₀ VOC	0.09 0.47 0.02 0.02	0.36 1.78 0.09 0.09
7-2-7	Dehydro Methane Burner	CO NO _x PM ₁₀ VOC	0.09 0.47 0.02 0.02	0.36 1.78 0.09 0.09
7-2-8	Dilute Acid Water Tank	Organic Acids	0.038	0.15
7-2-9	Anolon Storage Tank	VOC	0.30	1.40
7-2-11	Tech Anol Feed Tank	VOC	0.15	0.16
7-2-12	Tech Anol Feed Tank	VOC	0.02	0.16
7-2-13	D-Anone Storage Tank	VOC	0.19	0.81

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission 1b/hr	Rates * TPY
7-2-14	Dehydro Feed Tank	VOC	0.05	0.10
7-2-15	Cyclohexanol Tank	VOC	0.05	0.05
7-2-16	Cyclohexanol Tank	VOC	0.04	0.43
7-2-17	Cyclohexanone Stora	age Tanks	VOC	4.75
7-2-18	Cyclohexanone Stora	age Tank	VOC	2.37
7-2-19	Cyclohexanone Stora	age Tank	VOC	2.37
7-2-21	Concentrated Cataly	yst Tank	VOC	2.51
7-2-22	Cyclohexanone Stora	age Tank	VOC	2.37
7-2-23	Cyclohexanone Stora	age Tank	VOC	2.38
7-2-24	Anolon Storage Tanl	k VOC	0.051	0.20
7-2-25	Dehydro Feed Tank	VOC	1.37	0.07
7-2-27	Dilute Catalyst Ta	nk VOC	0.71	0.04
7-2-30	Anone and Anolon St	torage Tank	VOC	1.18
9-1-24	Cyclohexane Tank	VOC	0.26	0.32

Emission		Air Contaminant		n Rates *
Point No. (1)	Name (2)	Name (3)	<u> 1b/hr</u>	<u>TPY</u>
9-1-25	Cyclohexane Tank	VOC	0.23	0.38
9-1-26	Cyclohexane Tank	VOC	0.12	0.38
9-1-27	Concentrated Acid Wa 0.03	ater Tank Organic Ac	ids	<0.003
9-1-28	Emergency Dump Tank	VOC	60.87	4.66
11-1-2	Catalytic Incinerato	or CO NO _x TSP VOC	64.19 0.97 0.05 26.99	281.18 0.94 0.05 118.29

Emission Point No. (1)	Source Ain	[~] Contaminant Name (3)	Emission F lb/hr	Rates * TPY
11-1-3	Dehydro Methane Burner	CO NO _x TSP VOC	0.09 0.47 0.02 0.02	0.36 1.78 0.09 0.09
11-1-4	Dehydro Methane Burner	CO NO _x TSP VOC	0.09 0.47 0.02 0.02	0.36 1.78 0.09 0.09
11-1-5	Dehydro Methane Burner	CO NO _x TSP VOC	0.09 0.47 0.02 0.02	0.36 1.78 0.09 0.09
11-1-6	Dehydro Methane Burner	CO NO _x TSP VOC	0.10 0.51 0.03 0.03	0.36 1.78 0.09 0.09
11-1-7	Waste Burner	CO NO _x TSP VOC	0.56 0.37 0.12 4.00	2.45 1.64 0.52 17.57
11-1-9	Vent Condenser	VOC	0.02	1.3
11-1-10	Anolon Tank	VOC	0.89	0.12
11-1-14	Overhead Condenser	VOC	<0.01	<0.01
11-1-21	EP 316/223 Tank	VOC	0.40	0.11
11-1-22	EP 323 Storage Tank	VOC	<0.01	0.024

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emissior 1b/hr	n Rates * TPY
11-1-23	Concentrated Acid W	ater Organic Acids	<0.01	<0.01
11-1-25	Concentrated Cataly 0.02	st Tank	VOC	1.93
11-1-26	Dilute Catalyst Tan	k VOC	0.04	0.11
11-1-27	Hotwell Tank	VOC	<0.001	<0.01
11-1-29	Anolon Tank	VOC	0.02	1.3
11-1-35	Cyclohexanone Tanks	(3) VOC	1.28	6.11
11-1-36	Dehydro Feed Tank	VOC	0.14	0.19
11-1-37	Dehydro Feed Tank	VOC	0.14	0.19
11-1-38	Dehydro Feed Tank	VOC	0.14	0.19
11-1-39	Dehydro Feed Tank	VOC	0.14	0.19
11-1-40	Heavies Cracking Fe	ed VOC	0.11	0.52
11-1-41	EP-316 Storage Tank	VOC	0.43	0.30
11-1-42	EP-316 Storage tank	VOC	0.34	0.54
11-1-43	Dehydro Methane Bur	ner CO NO _x TSP VOC	0.22 0.61 0.02 0.04	0.96 2.67 0.09 0.18
11-1-44	Dehydro Methane Bur	ner CO NO _x TSP	0.22 0.61 0.02	0.96 2.67 0.09

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission lb/hr	Rates * TPY
		VOC	0.04	0.18
11-1-45	Emergency Dump Tank	VOC	62.35	0.86
11-1-47	Fugitives (4)	VOC	2.79	12.21
11-1-48	Fugitives (4)	VOC	2.17	9.52
11-1-49	Fugitives (4)	NH_3	0.63	2.78
11-1-50	Railcar Loading	VOC	3.33	4.03
11-1-51	Truck Loading	VOC	3.00	0.19
11-1-52	Off-site Barge Loadi	ng VOC	3.60	0.52
11-1-53	Deepwell Tank	VOC	<0.01	<0.001
11-1-55	Deepwell Tank	VOC	0.30	<0.001
11-1-71	Deepwell Tank	VOC	0.01	0.001
12-2-4	Deepwell Tank	VOC	<0.01	<0.001
12-2-5	Deepwell Tank	VOC	<0.01	<0.001
12-2-6	Deepwell Tank	VOC	<0.01	<0.001
12-2-8	Deepwell Tank	VOC	<0.01	<0.001
12-2-9	Deepwell Tank	VOC	<0.01	<0.001
12-2-10	Deepwell Tank	VOC	<0.01	0.01
12-2-11	Deepwell Tank	VOC	<0.01	0.01

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission 1b/hr	n Ra <u>tes *</u> TPY
12-2-12	Deepwell Tank	VOC	<0.01	0.03
7-3-34	Kettle Scrubber Ven	t Acids	0.5	2.19
7-3-35	Catalytic Converter <0.001	Vent	TSP	<0.001
7-3-42	Catalyst Oven Vent	TSP	<0.001	<0.001
7-3-43	Catalyst Oven Vent	TSP	<0.001	<0.001
7-3-44	Catalyst Oven Vent	TSP	<0.001	<0.001
7-3-55	Fugitives (4)	NH_3	0.98	4.3
12-1-1	Vent Gas Flare	NO _x CO	32.34 2.50	141.69 10.97
12-1-2	Nitric Oxide Flare	NO_{x} CO	0.23 0.11	1.02 10.97
12-1-8	Concentrated Sulfur <0.001 Storage Drum	ic Acid	H ₂ SO ₄	<0.001
12-1-9	Concentrated Sulfur <0.001 Storage Drum	ic Acid	H ₂ SO ₄	<0.001
12-1-29	Catalytic Converter 0.003	Vent	TSP	<0.001
12-1-30	Kettle Scrubber Ven	t Acids	2.19	9.52

Emission <pre>Point No. (1)</pre>	Source Ai Name (2)	r Contaminant Name (3)	Emission lb/hr	Rates * TPY
12-1-31	Catalyst Oven Vent	TSP	<0.001	<0.001
12-1-32	Catalyst Oven Vent	TSP	<0.001	<0.001
12-1-33	Catalyst Oven Vent	TSP	<0.001	<0.001
12-1-34	Catalyst Oven Vent	TSP	<0.001	<0.001
12-1-35	Catalyst Oven Vent	TSP	<0.001	<0.001
12-1-36	Catalyst Oven Vent	TSP	<0.001	<0.001
12-1-44	Catalyst Transfer Stat 29.29	ion	TSP	7.04
12-1-45	Fugitives (4)	NH_3	1.61	7.1
12-1-46	Ammonia Flare	NH₃ NO _× CO VOC	0.09 1.84 9.15 0.14	0.38 8.05 40.10 0.60
12-1-47	Carbon Beds	VOC	3.71	2.10
7-1-1	Neutralization Standpi <0.01	pe	VOC	<0.01
7-1-2	Neutralization Standpi <0.01	pe	VOC	<0.01
7-1-7	Anone Stripper OH Drum	ı VOC	0.53	0.003
7-1-8	Benzene Scrubber Vent	VOC (Benzene)	0.75	3.29
7-1-9	Slurry Settling Drum	VOC	0.28	<0.001

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission</u> lb/hr	Rates * TPY
7-1-10	Wash Water Storage	Tank VOC	<0.001	<0.001
7-1-11	Wash Water Storage	Tank VOC	<0.001	<0.001
7-1-12	Wash Water Storage	Tank VOC	<0.001	<0.001
7-1-13	Wash Water Storage	Tank VOC	<0.001	<0.001
7-1-14	SO ₂ Scrubber	SO ₂	2.72	11.92
7-1-15	Neutralization Sepa	arator Drum	VOC	0.45
7-1-16	Neutralization Circ <0.001	culation Drum	VOC	0.14
7-1-17	Neutralization Crud <0.001 Tank	le Storage	VOC	0.20
7-1-20	Kettle Dump Drum	VOC	0.02	<0.001
7-1-21	Overhead Drum	VOC	0.01	<0.001
7-1-22	Bottoms Drum	VOC	0.10	<0.01
7-1-23	Check Tank	VOC	0.20	0.01
7-1-24	Check Tank	VOC	0.20	0.01
7-1-25	Storage Tank Vent	VOC	7.46	0.006
7-1-26	Kettles Overhead Ta	ank VOC	0.005	<0.001

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission 1b/hr	Rates * TPY
7-1-27	Bottoms Drum	VOC	0.05	0.004
7-1-28	Check Tank	VOC	0.07	<0.001
7-1-29	Anone Surge Tank	VOC	1.20	0.01
7-1-30	Oleum Scrubber Vent	SO ₃ /H ₂ SO ₄	<0.001	0.003
7-1-31	Oxime Holdup Tank	VOC	1.02	0.013
7-1-32	Neutralization Sepa <0.001	rator Drum	VOC	0.45
7-1-33	Neutralization Circulation Drum 0.05		VOC	0.39
7-1-34	Neutralization Crude Storage 0.05 Tank		VOC	0.39
7-1-35	Extract Storage Tan	k VOC	1.96	<0.01
7-1-36	Overheads Drum	VOC	0.08	<0.01
7-1-37	Bottoms Tank	VOC	0.12	<0.01
7-1-38	Product Check Tank	VOC	0.17	0.01
7-1-39	Product Check Tank	VOC	0.17	0.01
7-1-40	Overheads Drum	VOC	0.007	0.001
7-1-41	Poly Return Storage 0.002	Tank	VOC	0.13

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emissior 1b/hr	Rates *
7-1-42	Oxime Salt Storage	Tank VOC	0.16	<0.001
7-1-43	Mother Liquor Stora <0.001	age Tank	VOC	0.16
7-1-44	Flake Feed Storage	Tank VOC	0.19	0.12
7-1-45	Product Check Tank	VOC	0.01	<0.001
7-1-46	SO ₄ Scrubber	TSP VOC	4.86 4.98	21.29 21.81
7-1-47	Jet Vent	VOC	0.01	0.046
7-1-48	Jet Vent	VOC	0.01	0.046
7-1-50	Hot Well Tank	VOC	<0.01	<0.001
7-1-51	Hot Well Tank	VOC	<0.01	<0.001
7-1-52	Hot Well Tank	VOC	<0.01	<0.001
7-1-53	Hot Well Tank	VOC	<0.01	<0.001
7-1-54	Hot Well Tank	VOC	<0.01	<0.001
7-1-55	Hot Well Tank	VOC	<0.01	<0.001
7-1-56	Hot Well Tank	VOC	<0.01	<0.001
7-1-57	Hot Well Tank	VOC	<0.01	<0.001
7-1-58	Jet Vent	VOC	0.01	0.046
7-1-59	Jet Vent	VOC	0.01	0.046

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission 1b/hr	Rates * TPY
7-1-60	Jet Vent	VOC	0.01	0.046
7-1-61	Jet Vent	VOC	0.01	0.046
7-1-62	Jet Vent	VOC	0.01	0.046
7-1-63	Jet Vent	VOC	0.01	0.046
7-1-64	N₂ Drying Tower	VOC	0.056	0.24
7-1-65	Vacuum System	VOC	0.01	0.046
7-1-66	Tank Farm Fugitives	(4) VOC	0.30	1.31
7-1-67	Oximation Fugitives	(4) VOC NH ₃	0.30 0.48	1.3 2.1
7-1-68	Distillation Fugiti 1.32	ves (4)	VOC	0.3
7-1-69	Reaction Fugitives	(4) VOC	0.3	1.32
7-1-70	Extraction Fugitive 1.32	s (4)	VOC	0.3
7-1-71	Caprolactam Rail Lo	ading	VOC	0.01
7-1-73	SO₂ Scrubber	SO_2 NH_3	2.76 0.29	12.07 1.27
7-1-74	Ammonium Sulfate Lo	ading	TSP	0.01

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission lb/hr	Rates * TPY
7-1-75	Kettle Dump	VOC	0.06	0.18
7-1-79	Storage Tank	VOC	0.30	0.004
7-1-80 Storage Tank		VOC	0.30	0.004
1-1-Barge	Capro Barge Loading	VOC	<0.01	<0.01
14-1-1	Ammonium Sulfate Lo 0.004	ading	TSP	0.01
14-1-4	Oxime Separator	VOC	0.51	<0.01
14-1-5	Oxime Separator	VOC	1.02	0.01
14-1-6	Overhead Separator	VOC	0.01	<0.01
14-1-8	Lactam Separator	VOC	<0.001	<0.001
14-1-10	Purge Drums	VOC	1.90	6.30
14-1-11	Overhead Drum	VOC	<0.01	<0.01
14-1-12	Centrifuge Feed Tan	k VOC	0.027	<0.001
14-1-13	Centrifuge Feed Tan	k VOC	0.027	<0.001
14-1-16	Storage Tank	VOC	0.027	0.002
14-1-18	Hot Well Tank	VOC	0.057	0.25
14-1-20	Hot Well Tank	VOC	<0.01	<0.01
14-1-21	Hot Well Tank	VOC	<0.01	<0.01

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission lb/hr	Rates * TPY
14-1-22	Hot Well Tank	VOC	<0.01	<0.01
14-1-23	Hot Well Tank	VOC	<0.01	<0.01
14-1-25	Oxime Storage Drum	VOC	1.48	0.012
14-1-26	Storage Drum	VOC	0.59	<0.01
14-1-27	Crude Lactam Storage	e VOC	0.029	0.008
14-1-29	Extract Storage	VOC	0.007	0.01
14-1-30	Extract Storage	VOC	0.007	0.001
14-1-31	Extract Storage	VOC	0.66	1.44
14-1-32	Storage Tank	VOC	0.54	<0.01
14-1-35	Extract Storage	VOC	1.04	0.01
14-1-36	Foreruns Receiver	VOC	0.76	0.026
14-1-37	Lights Storage	VOC	0.10	0.008
14-1-38	Kettle Feed Drum	VOC	0.25	0.029
14-1-39	Kettle Overheads	VOC	0.61	0.02
14-1-40	Mother Liquor Storag	je VOC	0.42	0.002
14-1-41	Mother Liquor Receiv	er VOC	0.01	<0.001
14-1-44	Water Storage	VOC	<0.001	<0.001
14-1-45	Concentrated Storage	e VOC	4.69	0.10

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
14-1-46	Oxime Salt Storage	VOC	1.21	0.002	
14-1-47	Mother Liquor Storag	e VOC	0.62	0.004	
14-1-52	Storage Drum	VOC	<0.01	<0.01	
14-1-55	Drying Tower	VOC	0.01	0.046	
14-1-56	Foreruns Tower Recei	ver VOC	0.01	0.046	
14-1-57	Finishing Tower	VOC	0.01	0.046	
14-1-58	E-511	VOC	0.01	0.046	
14-1-60	D-431	VOC	0.02	0.092	
14-1-61	Kettle	VOC	0.01	0.046	
14-1-62	E-600a	VOC	0.01	0.046	
14-1-63	E-600b	VOC	0.01	0.046	
14-1-64	E-720	VOC	0.01	0.046	
14-1-65	T-130	VOC	<0.001	0.003	
14-1-67	Pre-Drying Tower	VOC	0.01	0.046	
14-1-68	Caprolactam Loading	VOC	0.45	1.03	
14-1-69	Scrubber	TSP VOC	1.17 4.98	5.12 21.81	
14-1-70	Vacuum Jet	VOC	0.01	0.046	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission 1b/hr	Rates * TPY
14-1-73-01	Oximation Fugitives	(4) VOC	0.20	0.87
14-1-73-02	Anone Recovery Fugi- 0.87	tives (4)	VOC	0.20
14-1-73-03	Caprolactam Fugitive 0.87	es (4) VOC (Benz	zene)	0.20
14-1-73-04	Benzene Fugitives (4) VOC (Benzene)	0.20	0.87
14-1-73-05	Fugitives (4)	NH ₃	0.136	0.60
14-1-75	Benzene Crude Scrubl	oer VOC (Benzene)	0.75	3.29
14-1-76	SO ₂ Scrubber	SO_2 NH_3	2.76 0.29	12.07 1.27
14-1-77	Oleum Scrubber	SO_3/H_2SO_4	<0.001	0.003
14-1-78	Overhead Drum	VOC	0.95	0.32
14-1-80	Check Tank	VOC	<0.01	<0.01
14-1-81	Check Tank	VOC	<0.01	<0.01
14-1-83	Caprolactam Loading	VOC	0.002	<0.001
14-1-85	Extract Storage	VOC	0.21	0.05
14-1-86	Kettle Dump Trailer	VOC	0.067	0.294
14-1-87	Hot Well Tank	VOC	0.01	0.046
14-1-88	Hot Well Tank	VOC	0.01	0.046

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	<u> 1b/hr</u>	TPY
14-1-89	Hot Well Tank	VOC	<0.01	0.01
14-1-90	Extraction Tower Bo	ottoms	VOC	<0.001

- (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) TSP total suspended particulate matter, including PM_{10} .
- PM_{10} particulate matter with an aerodynamic diameter equal to or less than 10 microns.
 - VOC volatile organic compounds as defined in General Rule 101.1
 - NO_x total oxides of nitrogen
 - CO carbon monoxide
 - SO_2 sulfur dioxide
 - SO₃ sulfur trioxide
 - H₂SO₄ sulfuric acid
 - NH₃ ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day	24	Days/week	7	Weeks/year	52	or	Hrs/year	
8,760								

D	a	t	e	d	
$\boldsymbol{\nu}$	α	L	C	u	