## Permit Number 9804

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 No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
DCS-SP-1 to	Stockpiles (5)	РМ	0.15	0.66
		PM <sub>10</sub>	0.08	0.33
DCS-SP-5		PM <sub>2.5</sub>	0.01	0.05
		Cr <sup>+3</sup>	<0.05	<0.20
		Cr tot	<0.05	<0.20
		РМ	<0.001	0.0012
DCS-CT-1 to	Cooling Towers	PM <sub>10</sub>	<0.001	0.0012
DCS-CT-7	(5)	PM <sub>2.5</sub>	<0.001	0.0012
		Cr <sup>+6</sup>	0.0003	0.0012
		Cr tot	0.0003	0.0012
	Material Handling (5)	РМ	0.02	0.034
DCC MIL 1		PM <sub>10</sub>	<0.007	0.012
DCS-MH-1		PM <sub>2.5</sub>	<0.007	<0.01
		Cr <sup>+3</sup>	<0.006	0.01
		Cr tot	<0.006	0.01
15	15 Mixer Scrubber Stack (WS2 Scrubber)	РМ	1.68	5.90
		PM <sub>10</sub>	1.68	5.90
		PM <sub>2.5</sub>	1.68	5.90
	· · · · · · · · · · · · · · · · · · ·	Cr <sup>+3</sup>	<0.10	0.328
		Cr <sup>+6</sup>	<0.006	<0.021
		Cr tot	<0.10	<0.349

Emission Sources - Maximum Allowable Emission Rates

No. 1 and No.2, Or Dryers No.1 and No. 2, and Ground		РМ	0.53	1.86
		PM <sub>10</sub>	0.53	1.86
	Dryers No.1 and No. 2, and Ground	PM 2.5	0.53	1.86
	Ore Bins No. 1 and No. 2	voc	0.05	0.19
		NO <sub>x</sub>	0.77	3.40
		SO <sub>2</sub>	<0.01	0.02
		со	0.65	2.85
		Cr+3	0.14	0.49
		Cr <sup>+6</sup>	0.003	0.011
		Cr tot	0.143	0.50
17	Electrolytic Stack	РМ	0.16	0.54
		PM <sub>10</sub>	0.16	0.54
		PM <sub>2.5</sub>	0.16	0.54
		Cr+3	<0.001	<0.002
		Cr <sup>+6</sup>	<0.003	0.007
		Cr tot	<0.003	0.009
		NaOH	<0.08	<0.24
18	Primary Kiln Stack	РМ	4.94	18.15
		PM <sub>10</sub>	4.94	18.15
		PM <sub>2.5</sub>	4.94	18.15
		voc	0.54	2.36
		NOx	9.80	42.94
		SO <sub>2</sub>	0.06	0.26
		СО	8.23	36.07
		Cr <sup>+6</sup>	0.10	0.368
		Cr <sup>+3</sup>	0.50	1.837

		Cr tot	0.60	2.20
19	Kiln Ash Bin	PM	0.15	0.57
	Baghouse Stack	PM <sub>10</sub>	0.15	0.57
		PM <sub>2.5</sub>	0.15	0.57
	Soda Ash Bin No. 1			
34	Baghouse Stack	PM	0.15	0.57
		PM <sub>10</sub>	0.15	0.57
		PM <sub>2.5</sub>	0.15	0.57
35	Soda Ash Bin No. 2 Baghouse Stack	РМ	0.15	0.57
	-	PM 10	0.15	0.57
		PM <sub>2.5</sub>	0.15	0.57
36	Kiln Ash Feed Bin Baghouse Stack	РМ	0.15	0.57
		PM <sub>10</sub>	0.15	0.57
		PM <sub>2.5</sub>	0.15	0.57
38	Soda Ash Supply Bin Baghouse Stack	РМ	0.09	0.30
		PM <sub>10</sub>	0.08	0.28
		PM <sub>2.5</sub>	0.08	0.28
41	Secondary Kiln Stack	РМ	0.86	3.25
		PM <sub>10</sub>	0.86	3.25
		PM <sub>2.5</sub>	0.86	3.25
		voc	0.19	0.82
		NOx	3.42	14.99
		SO <sub>2</sub>	0.02	0.09
		со	2.87	12.59
		Cr+3	0.07	0.26
		Cr <sup>+6</sup>	0.03	0.112
		Cr <sub>tot</sub>	0.10	0.373
Project Number: 355231	· <del></del>			

42	Leach Scrubber Stack	PM	1.40	4.91
	(WS4 Scrubber)	PM <sub>10</sub>	1.40	4.91
		PM <sub>2.5</sub>	1.40	4.91
		Cr <sup>+3</sup>	0.48	1.67
		Cr <sup>+6</sup>	0.12	0.41
		Cr <sub>tot</sub>	0.60	2.08
D1 to Dx	Storage Tanks (5 & 6)	PM	<0.001	<0.001
	(0 4 0)	PM <sub>10</sub>	<0.001	<0.001
		PM <sub>2.5</sub>	<0.001	<0.001
		Cr <sup>+6</sup>	<0.001	<0.001
		Cr <sub>tot</sub>	<0.001	<0.001
		voc	<0.0001	<0.0001
		Benzene	<0.0001	<0.0001
		NaOH	<0.0001	<0.0001
D28b	Residual Tanks (5)	PM	<0.00001	<0.00001
	(=)	PM <sub>10</sub>	<0.00001	<0.00001
		PM <sub>2.5</sub>	<0.00001	<0.00001
		Cr <sup>+6</sup>	<0.00001	<0.00001
		Cr <sub>tot</sub>	<0.00001	<0.00001
		voc	<0.00001	<0.00001
		Benzene	<0.00001	<0.00001
D32	Residual Head Tank (5)	PM	<0.0001	<0.0001
		PM <sub>10</sub>	<0.0001	<0.00001
		PM <sub>2.5</sub>	<0.0001	<0.00001
		Cr <sup>+6</sup>	<0.00001	<0.00001
		Cr <sub>tot</sub>	<0.0001	<0.00001

	VOC	<0.0001	<0.00001
	Benzene	<0.0001	<0.00001

- (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) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

Cr<sup>+3</sup> - trivalent chromium

Cr<sup>+6</sup> - hexavalent chromium

Cr total chromium (Cr+3 + Cr+6)

NaOH - sodium hydroxide

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

- (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) EPN D1-Dx consists of Storage Tanks D20, D21, D34, D47, D56, D58, D59, D67, D71, D86A, D86B, D87A, D87B, D88A, D88B, D97, D98 and DCSKRS and total emissions from the listed tanks shall not exceed the reflected values.
- (7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.