

Tronox Pigments (Savannah), Inc.
BART Exemption Modeling
Stack Data

Stack ID	Sources	Description	Latitude	Longitude	UTM East		UTM North		Stack Height		Stack Diameter		Exhaust Velocity		Exhaust Temperature		Exhaust Flow
					(m)	(m)	(m)	(m)	(ft)	(m)	(ft)	(m)	(ft/s)	(m/s)	(F)	(K)	
1024	2403	Chloride Finishing Line A Tanks	32.080833	81.029722	497179.3	3549184.8	60.0	18.29	1.0	0.30	25.0	7.62	75.0	297.04	1180.0		
	2405	Chloride Finishing Line B Tanks															
1356	2404	Sulfuric Acid Plant	32.083056	81.026667	497467.7	3549431.1	150.0	45.72	5.5	1.68	31.0	9.45	171.0	350.37	41121.0		

Note:
The "Chloride Finishing Line A Tanks" and "Chloride Finishing Line B Tanks" exhaust through the same stack. The "Chloride Finishing Line B Tanks" are not a BART-eligible source.

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BART Exemption Modeling
Emission Source Data

Stack ID	Sources	Description	Capacity	Units	Emission Factors (lb/ton)				NOx Emissions			PM10 Emissions			H2SO4 Emissions			SO2 Emissions		
					NOx	PM10	H2SO4	SO2	(tpy)	(lb/hr)	(g/s)	(tpy)	(lb/hr)	(g/s)	(tpy)	(lb/hr)	(g/s)	(tpy)	(lb/hr)	(g/s)
1024	2403	Chloride Finishing Line A Tanks	5.14	ton/hr (pigment input)		0.094						2.1	0.48	0.06						
	2405	Chloride Finishing Line B Tanks	5.14	ton/hr (pigment input)		0.094						2.1	0.48	0.06						
1356	2404	Sulfuric Acid Plant	37.5	ton/hr (acid output)	0.174	See Notes	0.15	4.0	28.6	6.53	0.82	24.6	5.63	0.71	24.6	5.63	0.71	657	150	18.9

Notes:

The emissions from "Chloride Finishing Line A Tanks" and "Chloride Finishing Line B Tanks" exhaust through the same stack. The "Chloride Finishing Line B Tanks" are not a BART-eligible source. Emissions data for the "Chloride Finishing Line B Tanks" are provided for information purposes only, and should not be incorporated into the BART exemption modeling runs for Stack ID 1024.

For the Chloride Finishing Line A Tanks, PM10 emissions are conservatively assumed to be equal to PM emissions. PM emissions were estimated by scaling the PM emissions data reported in the annual emission statement for calendar year 2003.

For the Sulfuric Acid Plant, NOx emissions are estimated based on an emission factor used in the annual emission statements.

For the Sulfuric Acid Plant, SO2 and H2SO4 emissions are estimated based on the emission standards specified in 40 CFR 60 Subpart H (Standards of Performance for Sulfuric Acid Plants). The emission standards for SO2 and H2SO4 are 4.0 lb/ton and 0.15 lb/ton, respectively.

For the Sulfuric Acid Plant, it is assumed that PM10 emissions are equal to H2SO4 emissions. For modeling purposes, emissions of PM10 and H2SO4 are not additive.