FACILITY PERMIT REVIEW SHEET

DATE: 7/15/2011 **APPLICATION NUMBER:** 0310392-007-AO

FACILITY NAME: CSX Transportation / Moncrief Yard

FACILITY DESCRIPTION: Sand transfer facility

PERMIT PROCESSOR: C. Blane Johnson

MAJOR FOR CRITERIA POLLUTANTS AND/OR HAPs (Circle)

CO **PB** **NO_x** **PM** **SO_2** **VOC** **HAP**

SUBJECT TO: (Circle)

NSR(PSD) **PERMIT NUMBER:** _____

NSR(NAA) **PERMIT NUMBER:** _____

BACT **EU NUMBER:** _____

MACT **EU NUMBER:** _____

RACT **EU NUMBER:** _____

NSPS **EU NUMBER:** _____

FACILITY EMISSION SUMMARY

	POTENTIAL EMISSIONS	ALLOWABLE EMISSIONS	
	TPY	LBS/HR	TPY
PM	0.164		<1.0
PM10			
SO2			
NOX			
CO			
VOC			
TOC			
PB			
TOTAL HAP			
SINGLE HAP (highest)			

COMMENTS: Allowable Emissions of PM is for each emission unit, the Potential Emissions is the total for the facility.

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310392-007-AO **EU NUMBER:** 001

REFERENCES: Dynamic Air Emission Calculations; AP-42 11.19.1, and 11.19.2; and 0310392 applications.

POLLUTANT: Particulate Matter (PM)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	<1.0	5	0.03gr/ft^3	

allowed emission concentration (gr/ft^3) X flowrate (ft^3/min) X (min/hr) / (gr/lb) = Allowable Emission

0.03	450	60	7000	=	0.12	lb/hr
				=	0.51	ton/yr

POTENTIAL EMISSION CALCULATIONS

emission concentration (gr/ft^3) X flowrate (ft^3/min) X (min/hr) / (gr/lb) = Emission Rate

50	450	60	7000	=	193	lb/hour

emission rate (lb/hr) / process rate (ton/hr) = Emission Factor

193	25	=	7.72	lb/ton

emission factor (lb/ton) X process rate (ton/yr) = Uncontrolled Potential to Emit (UPTE)

7.72	6500	=	50180	lb/yr
		=	25.1	ton/yr

process rate (tons/hr) X emission factor (lb/ton) = Controlled Potential to Emit (PTE)

25	9.90E-03	=	0.25	lb/hr

process rate (tons/yr) X emission factor (lb/ton) = Controlled Potential to Emit (PTE)

6500	9.90E-03	=	64.4	lb/yr
		=	0.032	ton/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.700(2)(c)	2.1101
		62-296.711(2)(b)	2.1101
		62-297.620(4)	2.1201

COMMENTS: This emission unit escapes RACT per 62-296.700(2)(c) as its Allowable Emissions are <1.0 tons per year.

PERMIT PROCESSOR: _____ **DATE:** _____

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310392-007-AO **EU NUMBER:** 002

REFERENCES: WebFIRE and 0310392 applications.

POLLUTANT: Particulate Matter (PM)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	<1.0			

POTENTIAL EMISSION CALCULATIONS

emission factor (lb/ton) X process rate (ton/hr) = Potential to Emit (PTE)
2.90E-02 14.85 = 0.431 lb/hr

emission factor (lb/ton) X process rate (ton/yr) = Potential to Emit (PTE)
2.90E-02 6500 = 189 lb/yr
= 0.1 ton/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.700(2)(c)	2.1101
		62-296.320(4)(c)2	2.1101

COMMENTS: This emission unit produces fugitive emissions only.

PERMIT PROCESSOR: _____ **DATE:** _____

Effective 2/27/97

EMISSIONS CALCULATIONS

APPLICATION NUMBER: 0310392-007-AO **EU NUMBER:** 003

REFERENCES: Dynamic Air Emission Calculations; AP-42 11.19.1, and 11.19.2; and 0310392 applications.

POLLUTANT: Particulate Matter (PM)

ALLOWABLE EMISSIONS

LBS/HR	TPY	% OPACITY	CONCENTRATION	OTHER
	<1.0	5	0.03gr/ft^3	

allowed emission concentration (gr/ft^3) X flowrate (ft^3/min) X (min/hr) / (gr/lb) = Allowable Emission

0.03	212	60	7000	=	0.05	lb/hr
				=	0.24	ton/yr

POTENTIAL EMISSION CALCULATIONS

emission concentration (gr/ft^3) X flowrate (ft^3/min) X (min/hr) / (gr/lb) = Emission Rate

50	212	60	7000	=	91	lb/hour

emission rate (lb/hr) / process rate (ton/hr) = Emission Factor

91	14.85	=	6.13	lb/ton

emission factor (lb/ton) X process rate (ton/yr) = Uncontrolled Potential to Emit (UPTE)

6.13	6500	=	39845	lb/yr
		=	19.9	ton/yr

process rate (tons/hr) X emission factor (lb/ton) = Controlled Potential to Emit (PTE)

14.85	9.90E-03	=	0.15	lb/hr

process rate (tons/yr) X emission factor (lb/ton) = Controlled Potential to Emit (PTE)

6500	9.90E-03	=	64.4	lb/yr
		=	0.032	ton/yr

RULE APPLICABILITY:	FEDERAL	STATE	LOCAL
		62-296.700(2)(c)	2.1101
		62-296.711(2)(b)	2.1101
		62-297.620(4)	2.1201

COMMENTS: This emission unit escapes RACT per 62-296.700(2)(c) as its Allowable Emissions are <1.0 tons per year.

PERMIT PROCESSOR: _____ **DATE:** _____

Effective 2/27/97