

SMTV FER/EIS Emissions Report (186386) for 2009
Shelly Materials Plant 24
0180000002
April 13, 2010

Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562394	0.	1.06932E-09	1.06932E-09	TONS
Hexachlorodibenzo-P-Dioxin	34465468	0.	5.24937E-10	5.24937E-10	TONS
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648269	0.	5.24937E-10	5.24937E-10	TONS
Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851345	0.	1.55537E-10	1.55537E-10	TONS
Hydrochloric Acid (Hydrogen Chloride)	7647010	0.	0.0204142	0.0204142	TONS
Octachlorodibenzo-P-Dioxin	3268879	0.	2.62468E-07	2.62468E-07	TONS
Polychlorinated Dibenzofurans, Total	136677106	0.	1.45816E-08	1.45816E-08	TONS
Total Heptachlorodibenzo-P-Dioxin	37871004	0.	6.90195E-09	6.90195E-09	TONS
Total Pentachlorodibenzofuran	30402154	0.	7.19358E-09	7.19358E-09	TONS

Attachments

Description	Type	Public Document	Trade Secret Document	Trade secret Justification
Annual Emissions Calculations for Shelly Materials Plant #24	Annual Summary of Emissions	X		

Notes

User Name	Date	Note

Emission Units Without Detailed Emissions

Jun 1 2010, 11:50:04

Emission Unit	Why Excluded	Company Equipment ID
F002	Less Than 1 TPY per Pollutant	Plant #24 Agg Piles
T001	Less Than 1 TPY per Pollutant	Tank #1
T002	Less Than 1 TPY per Pollutant	Tank #2
T003	Less Than 1 TPY per Pollutant	Asphalt Tank #1
T004	Less Than 1 TPY per Pollutant	Asphalt Tank #2
T005	Less Than 1 TPY per Pollutant	Asphalt Tank
T006	Less Than 1 TPY per Pollutant	Asphalt Tank
T007	Less Than 1 TPY per Pollutant	Fuel Tank
T008	Less Than 1 TPY per Pollutant	T01
T009	Less Than 1 TPY per Pollutant	T02

Report Pollutant Summary: Total Emissions (Tons)

Unit	SCC Id	PM-CON	SO2	NOX	OC	7439921	PM-FIL	PM10-FIL	PM25-FIL	VOC	NH3	CO
F001	3-05-002-90	0.	0.	0.	0.	0.	3.34	0.	0.	0.	0.	0.
P901	3-05-002-63	0.	0.91	1.76	5.91	0.00146	6.4	0.	0.	0.	0.	13.57
Total		0.	0.91	1.76	5.91	0.00146	9.74	0.	0.	0.	0.	13.57

Emission Unit Summary: F001

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Emissions Unit ID: F001

Engineering Guide #71 Exemption:

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0	0	0.	TONS	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONS	
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONS	
Organic Compounds	OC	X	0	0	0.	TONS	
Pb - Lead	7439921	X	0	0	0.	TONS	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	3.34	0	3.34	TONS	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0	0.	TONS	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0	0.	TONS	
VOC - Volatile Organic Compounds	VOC		0	0	0.	TONS	
Ammonia	NH3		0	0	0.	TONS	
CO - Carbon Monoxide	CO		0	0	0.	TONS	
Total of Chargable Pollutants					3.34	TONS	

- Processes

- Process & Emissions Detail

Name: HMA Roadways

Source Classification Code (SCC): 3-05-002-90

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 10

Days Per Week: 6

Weeks Per Year: 34

Hours Per Year: 2040

Winter (Dec - Feb)%: 0

Spring (March-May)%: 20

Summer (June-Aug)%: 40

Fall (Sept-Nov)%: 40

Material	Material Action	Throughput	X Units
Asphaltic Concrete	Processed	194,421	TONS

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONS	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONS	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONS	
Organic Compounds	OC	X emissions: ENG. JUDGEMENT			0	0	0.	TONS	
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0	0.	TONS	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			3.34	0	3.34	TONS	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONS	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONS	
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			0	0	0.	TONS	

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONS	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONS	
Total of Chargable Pollutants							3.34	TONS	

Emission Unit Summary: P901

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Emissions Unit ID: P901

Engineering Guide #71 Exemption:

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0	0	0.	TONS	
SO2 - Sulfur Dioxide	SO2	X	0	0.91	0.91	TONS	
NOx - Nitrogen Oxides	NOX	X	0	1.76	1.76	TONS	
Organic Compounds	OC	X	1.54	4.37	5.91	TONS	
Pb - Lead	7439921	X	0	0.00146	0.00146	TONS	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	4.87	1.53	6.4	TONS	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0	0.	TONS	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0	0.	TONS	
VOC - Volatile Organic Compounds	VOC		0	0	0.	TONS	
Ammonia	NH3		0	0	0.	TONS	
CO - Carbon Monoxide	CO		0.25	13.32	13.57	TONS	
Total of Chargable Pollutants					14.9815	TONS	

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Dioxins, Total, w/o Individ. Isomers Reported {PCDDS}	136677093	0.	2.72189E-07	2.72189E-07	TONS
Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8-	35822469	0.	3.30516E-09	3.30516E-09	TONS
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562394	0.	1.06932E-09	1.06932E-09	TONS
Hexachlorodibenzo-P-Dioxin	34465468	0.	5.24937E-10	5.24937E-10	TONS
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648269	0.	5.24937E-10	5.24937E-10	TONS
Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851345	0.	1.55537E-10	1.55537E-10	TONS

Hydrochloric Acid (Hydrogen Chloride)	7647010	0.	0.0204142	0.0204142	TONS
Octachlorodibenzo-P-Dioxin	3268879	0.	2.62468E-07	2.62468E-07	TONS
Polychlorinated Dibenzofurans, Total	136677106	0.	1.45816E-08	1.45816E-08	TONS
Total Heptachlorodibenzo-P-Dioxin	37871004	0.	6.90195E-09	6.90195E-09	TONS
Total Pentachlorodibenzofuran	30402154	0.	7.19358E-09	7.19358E-09	TONS

- **Processes**

- **Process & Emissions Detail**

Name: HMA Production

Source Classification Code (SCC): 3-05-002-63

- **Material Information, Annual Average Operating Schedule & Throughput Percent**

Schedule Trade Secret:

Hours Per Day: 10

Days Per Week: 6

Weeks Per Year: 34

Hours Per Year: 2040

Winter (Dec - Feb)%: 0

Spring (March-May)%: 20

Summer (June-Aug)%: 40

Fall (Sept-Nov)%: 40

Material	Material Action	Throughput	X Units
Hot Mix Asphalt	Produced	194,421	TONS

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONS	
SO2 - Sulfur Dioxide	SO2	X emissions: STACK TEST			0	0.91	0.91	TONS	
NOx - Nitrogen Oxides	NOX	X emissions: STACK TEST			0	1.76	1.76	TONS	

Organic Compounds	OC	X	emissions: STACK TEST			1.54	4.37	5.91	TONS	
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0.00146	0.00146	TONS	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: STACK TEST			4.87	1.53	6.4	TONS	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0	0.	TONS	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0	0.	TONS	
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0	0.	TONS	
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONS	
CO - Carbon Monoxide	CO		emissions: STACK TEST			0.25	13.32	13.57	TONS	
Total of Chargable Pollutants								14.9815	TONS	

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Process Emissions

Pollutant	Code	Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Dioxins, Total, w/o Individ. Isomers	136677093	factor:OEP A (auto calculate)	0	2.8E-09	0.	2.72189E-07	2.72189E-07	TONS	

Reported {PCDDS}									
Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8-	35822469	factor:OEP A (auto calculate)	0	3.4E-11	0.	3.30516E-09	3.30516E-09	TONS	
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562394	factor:OEP A (auto calculate)	0	1.1E-11	0.	1.06932E-09	1.06932E-09	TONS	
Hexachlorodibenzo-P-Dioxin	34465468	factor:OEP A (auto calculate)	0	5.4E-12	0.	5.24937E-10	5.24937E-10	TONS	
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648269	factor:OEP A (auto calculate)	0	5.4E-12	0.	5.24937E-10	5.24937E-10	TONS	
Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851345	factor:OEP A (auto calculate)	0	1.6E-12	0.	1.55537E-10	1.55537E-10	TONS	
Hydrochloric Acid (Hydrogen Chloride)	7647010	factor:OEP A (auto calculate)	0	2.1E-04	0.	0.0204142	0.0204142	TONS	
Octachlorodibenzo-P-Dioxin	3268879	factor:OEP A (auto calculate)	0	2.7E-09	0.	2.62468E-07	2.62468E-07	TONS	
Polychlorinated Dibenzofurans, Total	136677106	factor:OEP A (auto calculate)	0	1.5E-10	0.	1.45816E-08	1.45816E-08	TONS	
Total Heptachlorodibenzo-P-Dioxin	37871004	factor:OEP A (auto calculate)	0	7.1E-11	0.	6.90195E-09	6.90195E-09	TONS	
Total Pentachlorodibenzofuran	30402154	factor:OEP A (auto calculate)	0	7.4E-11	0.	7.19358E-09	7.19358E-09	TONS	