

US EPA ARCHIVE DOCUMENT

Carter Carburetor Weekly Air Monitoring & Sampling Report

March 23, 2015 – March 29, 2015

Carter Carburetor Daily Weather Conditions							
	Monday 3/23/2015	Tuesday 3/24/2015	Wednesday 3/25/2015	Thursday 3/26/2015	Friday 3/27/2015	Saturday 3/28/2015	Sunday 3/29/2015
Temperature (range) ¹	37-68	34-47	46-60	38-51	30-44	28-46	35-61
Wind Speed (peak & average) ²	25.1 / 10.1	35.1 / 13.0	25.1 / 9.6	25.9 / 10.7	25.1 / 10.1	18.1 / 7.2	32.0 / 11.0
Wind Direction (predominant)	N	SE	W	NW	N	SE	S
Precipitation (total) ³	0.13	0.59	0.52	0.07	Trace	0.00	0.02

Carter Carburetor Daily Work Activities							
Site Activity	Monday 3/23/2015	Tuesday 3/24/2015	Wednesday 3/25/2015	Thursday 3/26/2015	Friday 3/27/2015	Saturday 3/28/2015	Sunday 3/29/2015
Dry Ice Blasting							
Power Washing	X	X	X	X	X		

Daily Air Monitoring and Sampling Results

Air Monitoring / Sampling Results - Station 1 (Results reported in µg/m ³)									
Parameter	Type of Analysis	Standard / Action Level	Monday 3/23/2015	Tuesday 3/24/2015	Wednesday 3/25/2015	Thursday 3/26/2015	Friday 3/27/2015	Saturday 3/28/2015	Sunday 3/29/2015
PM ₁₀ (24-hour TWA)	Real-time	150 µg/m ³ (NAAQS)		63.0	52.1	31.0	35.6		
Lead (in air sample)	Lab	0.15 µg/m ³ (NAAQS)	<0.080	<0.080					
Comments	The air monitoring system was offline for several hours overnight on 3/23/015, the system was restarted and the problem corrected. The 1-hour TWA was exceeded on 3/27/2015 due to smoke from a grill. No laboratory samples collected after Wednesday, 3/25/2015, and air monitoring was suspended on 3/28/2015, due to a temporary change in site activities. Air monitoring is to start again in 1 to 2 weeks.								

Air Monitoring / Sampling Results - Station 2 (Results reported in µg/m ³)									
Parameter	Type of Analysis	Standard / Action Level	Monday 3/23/2015	Tuesday 3/24/2015	Wednesday 3/25/2015	Thursday 3/26/2015	Friday 3/27/2015	Saturday 3/28/2015	Sunday 3/29/2015
PM ₁₀ (24-hour TWA)	Real-time	150 µg/m ³ (NAAQS)	15.6	35.7	31.1	13.0	10.0		
Lead (in air sample)	Lab	0.15 µg/m ³ (NAAQS)	<0.075	<0.074					
Comments	No laboratory samples collected after Wednesday, 3/25/2015, and air monitoring was suspended on 3/28/2015, due to a temporary change in site activities. Air monitoring is to start again in 1 to 2 weeks.								

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Air Monitoring / Sampling Results - Station 3 (Results reported in $\mu\text{g}/\text{m}^3$)									
Parameter	Type of Analysis	Standard / Action Level	Monday 3/23/2015	Tuesday 3/24/2015	Wednesday 3/25/2015	Thursday 3/26/2015	Friday 3/27/2015	Saturday 3/28/2015	Sunday 3/29/2015
PM₁₀ (24-hour TWA)	Real-time	150 $\mu\text{g}/\text{m}^3$ (NAAQS)	13.3	40.0	28.5	11.5	7.5		
Lead (in air sample)	Lab	0.15 $\mu\text{g}/\text{m}^3$ (NAAQS)	<0.082	<0.081					
Comments	No laboratory samples collected after Wednesday, 3/25/2015, and air monitoring was suspended on 3/28/2015, due to a temporary change in site activities. Air monitoring is to start again in 1 to 2 weeks.								

Air Monitoring / Sampling Results - Station 4 (Results reported in $\mu\text{g}/\text{m}^3$)									
Parameter	Type of Analysis	Standard / Action Level	Monday 3/23/2015	Tuesday 3/24/2015	Wednesday 3/25/2015	Thursday 3/26/2015	Friday 3/27/2015	Saturday 3/28/2015	Sunday 3/29/2015
PM₁₀ (24-hour TWA)	Real-time	150 $\mu\text{g}/\text{m}^3$ (NAAQS)	12.2	36.0	28.3	16.2	6.5		
Lead (in air sample)	Lab	0.15 $\mu\text{g}/\text{m}^3$ (NAAQS)	<0.062	<0.069					
Comments	No laboratory samples collected after Wednesday, 3/25/2015, and air monitoring was suspended on 3/28/2015, due to a temporary change in site activities. Air monitoring is to start again in 1 to 2 weeks.								

Legend:

No shading – indicates TWA readings less than the applicable standard/action level	Yellow shading – indicates a 1-hour TWA exceeded the applicable standard/action level, but the 24-hour TWA was below the standard/action level; initiate investigation	Red shading – indicates the 24-hour TWA exceeded the applicable standard/action level; initiate corrective action	Orange shading – indicates no data are available
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NAAQS – National Ambient Air Quality Standard

PM₁₀ – Particulate matter less than 10 microns in size

TWA – Time-weighted average (average of data collected from 12:00 AM to 12:00 AM)

$\mu\text{g}/\text{m}^3$ – Micrograms per cubic meter

¹ Temperature reported in degrees Fahrenheit

² Wind speed reported in miles per hour

³ Precipitation reported in inches

