



February 20, 2008

Mr. Charlie Fitzimmons  
On-Scene Coordinator  
U.S. Environmental Protection Agency Region 3  
701 Mapes Road  
Ft. George Meade, MD 20755-5350

**Subject: Trip Report for Jimmy's Tire Salvage Tire Fire**  
**EPA Contract No.: EP-S3-05-02**  
**Technical Direction Document No.: E23-014-08-01-003**  
**Document Tracking No.: 0450**

Dear Mr. Fitzimmons,

Tetra Tech EM Inc. (Tetra Tech) is submitting the trip report for Jimmy's Tire Salvage Tire Fire summarizing air monitoring activities conducted on January 23-24th, 2008.

If you have any questions regarding this report, please contact Marian Murphy at (610) 364-2129 or me at (215) 768-0067

Sincerely,

A handwritten signature in black ink, appearing to read 'LSH'.

Lee Shin  
Project Manager

Enclosure

cc: TDD File

**TRIP REPORT  
FOR THE  
JIMMY'S TIRE SALVAGE TIRE FIRE  
WASHINGTON, DC**

Prepared for

U.S. Environmental Protection Agency Region 3  
1650 Arch Street  
Philadelphia, Pennsylvania 19103

Submitted by

Tetra Tech EM Inc.  
7 Creek Parkway, Suite 700  
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EPA Contract No.: EP-S3-05-02

Technical Direction Document No.: E23-014-08-01-003

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February 20, 2008

Prepared by

Approved by



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Lee Shin  
Project Manager



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Marian Murphy  
Program Manager

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## **1.0 INTRODUCTION**

Under Eastern Area Superfund Technical Assessment and Response Team (START) Contract No. EP-S3-05-02, Technical Direction Document (TDD) No. E23-014-08-02-002, U.S. Environmental Protection Agency (EPA) Region 3 tasked Tetra Tech EM Inc., (Tetra Tech) to prepare a trip report summarizing air monitoring activities at Jimmy's Tire Salvage in Washington, DC. The purpose of the air monitoring was to determine the extent of contamination in the air from the fire that occurred at Jimmy's Tire Salvage. The fire began shortly before 1:30 p.m. in the brick building at the intersection of 12<sup>th</sup> and K Streets and Florida Avenue on January 21, 2008. Firefighters contained the blaze at about 5:30 p.m., but planned to pour foam on the smoldering business and watch it through the night. Tetra Tech began air monitoring the afternoon of January 23, 2008, and completed air monitoring activities on January 24, 2008. This trip report summarizes air monitoring activities.

This trip report provides site background in Section 2.0, describes site activities in Section 3.0, discusses recommendations and conclusions in Section 4.0, and provides a summary in Section 5.0. All references cited in this report are listed after the text.

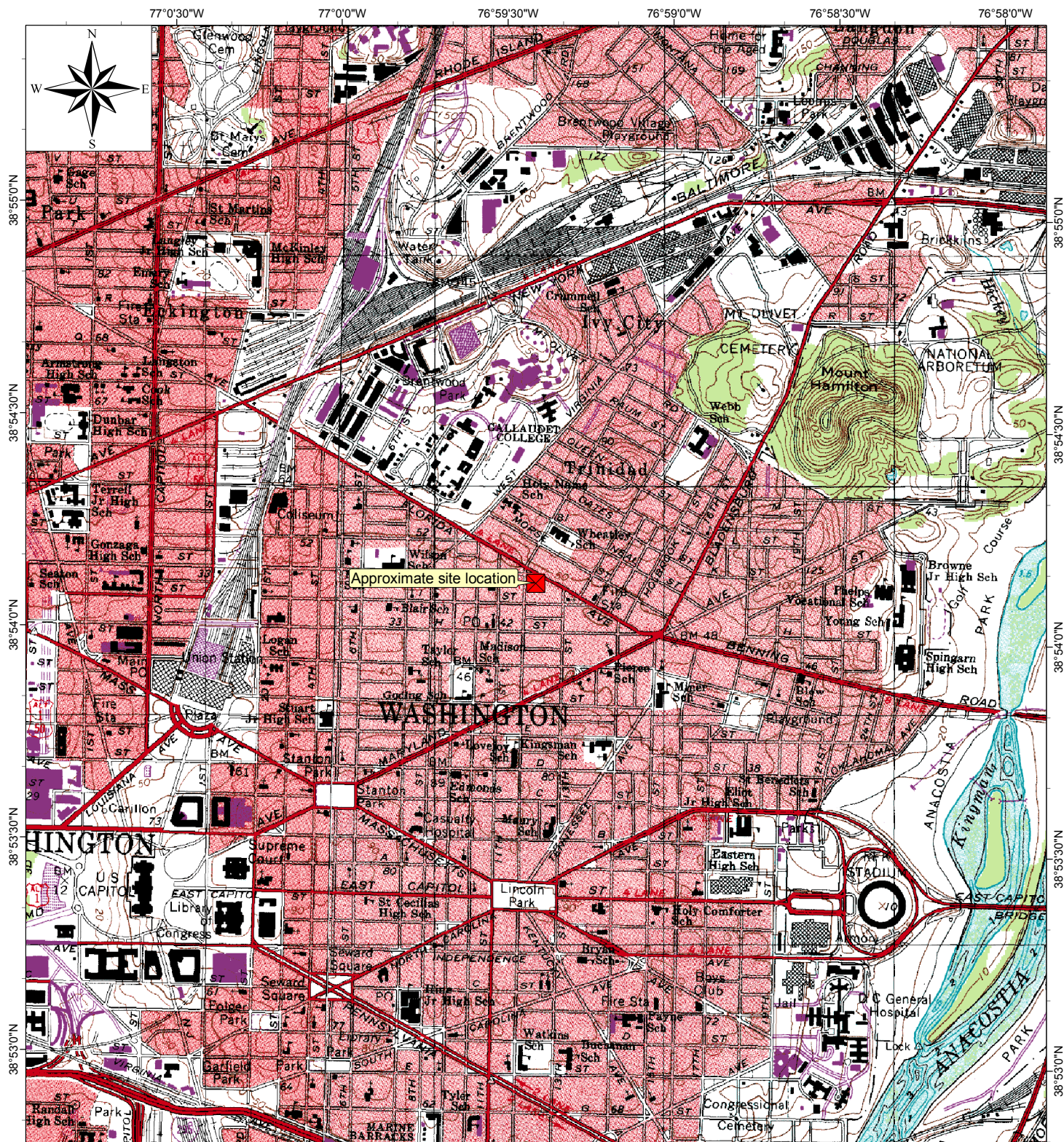
## **2.0 BACKGROUND**

This section describes the site location, presents a description of the site, and summarizes previous site activities and investigations.

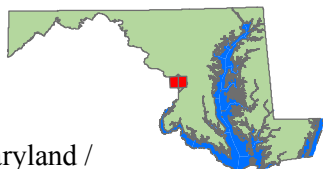
### **2.1 SITE LOCATION**

Jimmy's Tire Salvage Tire Fire site is located at 1215 K Street Northeast in Washington, D.C. The approximate geographic coordinates of the site are 38.902 degrees north latitude and 76.9897 degrees west longitude. Figure 1 shows the site location and surrounding areas (USGS 1983).





Quadrangle Location = ■



Maryland /  
District of Columbia

## Jimmy's Tire Fire Site Washington, District of Columbia

**Figure 1**  
Site Location Map

TDD No. E23-014-08-01-003  
EPA Contract No. EP-S3-05-02

Map created on February 8, 2008  
by D. Call, Tetra Tech EM Inc.





## **2.2 SITE DESCRIPTION**

The site was a tire shop in Northeast Washington. The fire began at the intersection of 12<sup>th</sup> and K Streets and Florida Avenue on January 21, 2008. Jimmy's Tire Salvage is located amid townhouses and apartments in the Trinidad neighborhood. Jimmy's Tire Salvage had been a Florida Avenue institution since the mid-1970's. There were approximately 20,000 to 30,000 tires in the warehouse. Figure 2 shows the site layout, including the location of the warehouse where the fire occurred and the air monitoring locations.

## **2.3 SITE CHRONOLOGY**




At approximately 1:30 p.m. on January 21, 2008, a fire began at Jimmy's Tire Salvage in Washington D.C. Fire crews from Fairfax County, Reagan National Airport, and Andrews Air Force base were brought in to assist D.C. firefighters with foam. At about 5:30 p.m. the fire was contained, but firefighters continued to pour foam and watch it throughout the night (Washington Post 2008).

START was tasked to conduct air monitoring, and mobilized to the site on January 23, 2008.



Source: Modified from USGS Urban Imagery, 2002

0 100 200 300 Feet

<p>Approximate Site Location = </p>  <p>Maryland / District of Columbia</p>	<p align="center"><b>Jimmy's Tire Fire Site</b> Washington, District of Columbia</p>	
<p align="center"><b>Figure 2</b> Air Monitoring Location Map</p>		
	<p>TDD No. E23-014-08-01-003 EPA Contract No. EP-S3-05-02</p>	<p>Map created on February 8, 2008 by D. Call, Tetra Tech EM Inc.</p>  <p><b>TETRA TECH</b></p>



### 3.0 SITE ACTIVITIES

EPA and Tetra Tech START personnel mobilized to the site on January 23, 2008. Upon reaching the site, EPA and Tetra Tech START personnel met with the Washington D.C. Bureau of Environmental Quality (BEC).

The Tetra Tech START personnel then began to conduct an assessment of air monitoring locations with the EPA and BEC. Three air monitoring instruments were utilized throughout the response. The Multi-Rae, to detect for the presence of volatile organic compounds, the Thermo Anderson Data RAM (Data RAM), for the detection of dust particulate concentrations, and the Personal Data Rams (PDRs), for the detection of dust particulate concentrations. Ten air monitoring locations were established in areas around the Jimmy's Tire Salvage, and the results are shown in Table 1 and 2 averaged for the day. On January 23, 2008, the START personnel collected air monitoring data from 1200-1600. On January 24, 2008, the START collected for one hour, from 0900-1000. In Appendix B, all air monitoring results are shown on the field logbook sheets.

**Table 1. Air Monitoring Results for January 23, 2008.**

**Results in Units: ug/m<sup>3</sup>**

Air Monitoring Locations	Jimmy's Tire Shop	13 <sup>th</sup> and Florida	13 <sup>th</sup> and I Street	12 <sup>th</sup> and K Street	12 <sup>th</sup> and Montello	Morse and Montello	Morse and Trinidad	Trinidad and Florida
Collection Time	1200-1600	1200-1600	1200-1600	1200-1600	1200-1600	1200-1600	1200-1600	1200-1600
Multi-Rae	0	0	0	0	0	0	0	0
DR-1 (TWA Average)	13.96	NA	NA	NA	NA	NA	NA	NA
DR-2 (TWA Average)	NA	NA	NA	13.05	NA	NA	NA	NA
PDR-1 (TWA Average)	7	15	12	.17	14	19	10	4
PDR-2 (TWA Average)	13	17	5	8	18	15	17	16

**Key:**

Note:	The results are an average of the five hour collection time.	DR:	Data Ram
OSHA Limit:	Units: 5,000 ug/m <sup>3</sup>	TWA:	Time Weighted
Average PDR:	personalDataRam	Units:	ug/m <sup>3</sup>

**Table 2. Air Monitoring Locations and Results for January 24, 2008.**

**Results in Units: ug/m<sup>3</sup>**

<b>Air Monitoring Locations</b>	<b>Jimmy's Tire Shop</b>	<b>13<sup>th</sup> and Florida</b>	<b>13<sup>th</sup> and I Street</b>	<b>12<sup>th</sup> and K Street Background</b>	<b>12<sup>th</sup> and Montello Street</b>	<b>Morse and Montello</b>	<b>Morse and Trinidad</b>	<b>Trinidad and Florida</b>
Collection Time	0900-1000	0900-1000	0900-1000	0900-1000	0900-1000	0900-1000	0900-1000	0900-1000
Multi-Rae	0	0	0	0	0	0	0	0
DR-1 (TWA Average)	13.96	NA	NA	NA	NA	NA	NA	NA
DR-2 (TWA Average)	NA	NA	NA	12.92	NA	NA	NA	NA
PDR-1 (TWA Average)	15	12	14	12	15	18	11	13
PDR-2 (TWA Average)	13	14	17	14	5	7	3	6

**Key:**

Note: The results are an average of the five hour collection time.

DR: Data Ram

OSHA Limit: Units: 5,000 ug/m<sup>3</sup>

TWA: Time Weighted Average

PDR: personalDataRam

Units: ug/m<sup>3</sup>

These locations can be found on Figure 2. These activities were conducted in accordance with Tetra Tech's Standard Operating Procedure (SOP) No. 073 "Air Quality Monitoring" (Tetra Tech 1999b)

The Tetra Tech START used the data logging functions of the Data RAMs and PDRs throughout the work day. Tetra Tech START recorded all activities in the site logbook in accordance with Tetra Tech's SOP No. 024, "Recording of Notes in Field Logbook" (Tetra Tech 1999a).

#### **4.0 CONCLUSIONS AND RECOMMENDATIONS**

The Occupational Health and Safety Administration (OSHA) permissible exposure limit (PEL) on an 8-hour time weight average (TWA) is 15 milligrams per cubic meter (mg/m<sup>3</sup>) total dust and 5 mg/m<sup>3</sup> for respirable dust (NIOSH 2005).

Air monitoring conducted on January 23-24, 2008, indicated that volatile organic compounds, carbon dioxide, hydrogen sulfide, and respirable dust concentrations were below the OSHA PEL, NIOSH REL, and ACGIH TLV concentrations throughout the response.

Based on the absence of volatile organic compound or respirable dust concentrations above background limits, the air quality was not considered a threat to human health or environment.

## **5.0 SUMMARY**

On January 23-24, 2008, EPA Region 3 and Tetra Tech conducted an air quality assessment at Jimmy's Tire Salvage in Washington D.C. Air monitoring indicated that the overall air quality was not a threat to human health and the environment. The air monitoring results were taken two full days after the initial fire began.

Throughout air monitoring activities on January 23-24, 2008 at Jimmy' Tire Salvage Tire Fire, no hits above background were detected on the Multi-Rae, Data Ram, and the PDR's.

## REFERENCES

- National Institute for Health and Safety. (NIOSH). 2005. "Pocket Guide to Chemical Hazards." Department of Health and Human Resources. Washington, District of Columbia. September.
- Tetra Tech EM Inc. (Tetra Tech). 2006. "Quality Assurance Project Plan (QAPP) for START." November.
- Tetra Tech. 1999a. Standard Operating Procedure (SOP) No. 024, "Recording of Notes in Field Logbook." November.
- Tetra Tech. 1999b. SOP No. 073 "Air Quality Monitoring." November.
- U.S. Geological Survey (USGS). 1983. 7.5-Minute Series Topographic Map of Washington, East and West D.C., Quadrangle.
- USGS. (2002) USGS Urban Imagery. Washington, D.C.
- Washington Post. (2008). Article on Jimmy's Tire Fire. Accessed on the web at [www.washingtonpost.com/wp-dyn/content/article](http://www.washingtonpost.com/wp-dyn/content/article). January 22.



**APPENDIX A**  
**PHOTOGRAPHIC LOG**  
(Four Pages)



## *Photographic Documentation*

**Client:** U.S. EPA Region 3  
**Site Name:** Jimmy's Tire Salvage Tire Fire  
**Location:** Hamburg, Pennsylvania

**Prepared by:** Tetra Tech EM Inc.  
**Photographer:** START Region 3  
**TDD Number:** E23-014-08-01-003

**Photograph No.:** 1

**Photograph Date:** 1/23/2008

**Orientation:** North

**Description:** Removal of tire and debris from Jimmy's Tire.

**Street Address:** 12<sup>th</sup> and K Street.



**Photograph No. :** 2

**Photograph Date:** 1/23/2008

**Orientation:** North

**Description:** Removal of tire and debris from Jimmy's Tire.

**Street Address:** 12<sup>th</sup> and K Street.





## *Photographic Documentation*

**Client:** U.S. EPA Region 3  
**Site Name:** Jimmy's Tire Salvage Tire Fire  
**Location:** Hamburg, Pennsylvania  
**Photograph No. :** 3

**Prepared by:** Tetra Tech EM Inc.  
**Photographer:** START Region 3  
**TDD Number:** E23-014-08-01-003

**Photograph Date:** 1/23/2008

**Orientation:** East

**Description:** Data RAM and PDR location directly across the street from Jimmy's Tire.

**Street Address:** 12<sup>th</sup> and K Street.



**Photograph No. :** 4

**Photograph Date:** 1/23/2008

**Orientation:** Southeast

**Description:** Air monitoring at Trinidad and Florida Avenue.

**Street Address:** Trinidad and Florida Avenue.







## *Photographic Documentation*

**Client:** U.S. EPA Region 3  
**Site Name:** Jimmy's Tire Salvage Tire Fire  
**Location:** Hamburg, Pennsylvania  
**Photograph No. : 5**

**Prepared by:** Tetra Tech EM Inc.  
**Photographer:** START Region 3  
**TDD Number:** E23-014-08-01-003

**Photograph Date:** 1/24/2008

**Orientation:** North

**Description:** Crews continue removal of tires and debris from Jimmy's Tire Salvage.

**Street Address:** 12<sup>th</sup> and K Street.



**Photograph No.:** 6

**Photograph Date:** 1/24/2008

**Orientation:** North

**Description:** Air monitoring location across the street from Jimmy's Tire Salvage.

**Street Address:** 12<sup>th</sup> and K Street.





## *Photographic Documentation*

**Client:** U.S. EPA Region 3

**Site Name:** Jimmy's Tire Salvage Tire Fire

**Location:** Hamburg, Pennsylvania

**Photograph No. :** 7

**Prepared by:** Tetra Tech EM Inc.

**Photographer:** START Region 3

**TDD Number:** E23-014-08-01-003

**Photograph Date:** 1/23/2008

**Orientation:** Southeast

**Description:** Crews continue to remove tires and debris from the Jimmy's Tire Salvage.

**Street Address:** 12<sup>th</sup> and K Street.



**APPENDIX B**  
**LOGBOOK NOTES**  
**(Three Sheets)**

Location 3/any's TALK FIRE Date 1-13-08  
Project/Client WASHINGTON DC TALK FIRE  
MURPHY / SWIN \* WIND BLOWING WEATHER

WUOLY / SHU + MOATH +

2021年12月25日

ADrenal	START	06M OBSERVED FROM BOOTHPYND	1151
0.008	1130	START ARRIVES AT COMMAND POST	1200
		PARTICULATE MONITORING, H <sub>2</sub> S	
		GO WITH THE MULTIGAS, SIDEWALK	
		UPWIND OF VAN, FOR DATARAM	1215
		OVERALL GEAR IS ASSESSMENT OF	1230
		AIR QUALITY IN THE AREA	1245
		DATA - MULTIGAS → LOCATION	1300
0.008	1200	BACKGROUND	1315
0.005	1205	① SIMPLY'S TIME	1330
0.004	1210	② 13th ST W/FLORIDA	1335
0.006	1215	③ TAIWANO / FLORIDA	
0.005	1220	SIMPLY'S TIME	1345
0.010	1225	④ 13th / FLORIDA	1420
0.006	1230	⑤ 13th / I ST	1440
0.006	1235	12th / I ST	1500
0.009	1240	⑥ 12th / K ST	1505
0.008	1245	⑦ 12th / MONTGOMERY	
0.007	1300	⑧ MONTGOMERY / MONTGOMERY	
0.008	1305	⑨ MONTGOMERY / BLACK	1510
0.012	1310	⑩ MONTGOMERY / TAIWANO	1545
0.007	1315	TAIWANO / FLORIDA	1600
0.006	1330	SIMPLY'S TIME	
0.008	1345	TAIWANO / FLORIDA	

DATA RAIL SET UP ON	FLORIDA AVENUE
DATA RAIL SET UP ON	VEHICLE ON
K STREET AND FLORIDA AVENUE NE	
END 2 DATA RAIL	POR- ER-2
30.8 ug/m <sup>3</sup> TWA	.007 mg/m <sup>3</sup> 3
12.3 ug/m <sup>3</sup> TWA	.007 mg/m <sup>3</sup> 0
9.8 ug/m <sup>3</sup> TWA	.008 mg/m <sup>3</sup> 0
8.4 ug/m <sup>3</sup> TWA	.014 mg/m <sup>3</sup> 0
8.4 ug/m <sup>3</sup> TWA	.008 mg/m <sup>3</sup> 0
8.0 ug/m <sup>3</sup> TWA	.0006 mg/m <sup>3</sup> 0
PM-10 SET UP ON	FLORIDA AVENUE WEST
TO DATA RAIL ON	POUCH OF RESIDENCE-
7.9 ug/m <sup>3</sup> TWA	.007 mg/m <sup>3</sup> 0
10.4 ug/m <sup>3</sup> TWA	.006 mg/m <sup>3</sup> 0
10.3 ug/m <sup>3</sup> TWA	.006 mg/m <sup>3</sup> 0
10.1 ug/m <sup>3</sup> TWA	.006 mg/m <sup>3</sup> 0
START DIRECTLY BEHIND FIRE FIGHT LOCATION	
NOW-OFFSET ON MULTI-SEAT AND ER-1	
POR OSC AND START LOW SMOKE OBODS	
10.1 ug/m <sup>3</sup> TWA	.007 mg/m <sup>3</sup> 0
10.0 ug/m <sup>3</sup> TWA	.007 mg/m <sup>3</sup> 0
SITE 2 DATA RAIL	SITE 3 DATA RAIL
91.7 LOW	14.6 LOW
11.0 TWA	10.9 TWA

FEB 28th completion date  
Jimmy's Time Feels 1-24-08

Jimmy's Time Feels 1-24-08

WASHINGTON, DC

INVESTIGATION  
(cc: jly.beall@dc.gov)

0700 START MOBILE FROM 4076L  
0730 START PARKING AT JIMMY'S FIRE-  
MULTI-PLATE 141-621 141-621-1 0A-2 0A-3  
0 0.001 0 185.5 g/L  $\frac{185.5}{93} \frac{g}{L} = 2.0$   
0100 0 0.042 0 180.9 g/L  $\frac{180.9}{104.4} \frac{g}{L} = 1.7$   
0430 0 0.006 0.042 185.5 g/L  $\frac{185.5}{101.0} \frac{g}{L} = 1.8$

1034 START SHUT + MURPHY DEMOBILIZE  
FROM JIMMY'S TIME FIRE TO BOOTMAY

1-22-08 FROM MULTI-PLATE CALIBRATED ZERO  
AND FLOW AIR CALIBRATION ISOBUT=100  
O<sub>2</sub> = 20.9% FOR 6A TIME FIRE

\*\*\* Government of the District of Columbia  
Department of Health  
Environmental Health Administration  
Bureau of Environmental Quality

Keith T. Keemer  
Environmental Specialist - CIE, CMR, HAZWOPER

Bureau of Environmental Quality  
Air Quality Division - Indoor Air  
51 N Street, NE - 5th Floor  
Washington, DC 20002  
Telephone (202) 535-2999  
Fax (202) 535-1371  
<keith.keemer@dc.gov>

1350 START SHUT AND MURPHY ARRIVE BOOTMAY  
1500 START SHUT BEHIND DOWN LEAD OF DATA  
FROM 10A AND TIME DATA RAN  
1700 START SHUT COMPLETELY DOWN LEADING DATA

24  
1-24-08



Location Jimmy's tint tint Date 1-23-08

Project/Client WASHINGTON DC

MURPHY (SAIN)

Location Jimmy's tint tint Date 1-23-08

Project/Client WASHINGTON DC

MURPHY (SAIN)

PDR-601	PDR-602	DR1	DL2	DL3	DL4
1530 .006	.008	9.9.0.0	8.8.0.0	10.1.0.0	0
1545 .005	.007	9.2.0.0	8.2.0.0	8.1.0.0	0
1600 .006	.006	8.5.0.0	7.1.0.0	7.1.0.0	0

1600 STANT WRAPPED UP FOR THE DAY WILL  
STAY OVERNIGHT FOR ONE NIGHT  
1630 STANT ARRIVED AT HOTEL

R

1-23-08

57 STREET

SOUTH

