



Consequence Report
Set 1 - Plume based on observed data
Automated Report - Actual Release

SUMMARY:

This report describes the health effect consequences associated with a hypothetical fire release to the atmosphere from a generic source. This is an initial, automated NARAC product, not a final recommendation. Initial predictions are for a limited time period and areas affected may change at later times. Please consult NARAC staff (925-422-7627) for refined, quality assured predictions. Predictions should be confirmed and refined using measurements.

PRODUCTS:

1 Hr Avg Air Conc. at 05/26/2009 15:05:00 UTC

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 05/26/2009 16:05:00 UTC

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 05/26/2009 17:05:00 UTC

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

1 Hr Avg Air Conc. at 05/26/2009 18:05:00 UTC

Material: particulate

This product identifies relative magnitudes of air concentration from a release of a non-specific material. These levels should be confirmed by monitoring surveys.

SOURCE INFORMATION:

Release Start Time:	May 26, 2009 14:05 UTC
Release Stop Time:	May 27, 2009 06:05 UTC
Release Location:	(32.5825,-95.1989)
Source Material and Amount:	7.61905 g of particulate
Source Geometry:	gaussian cloud top at 86 m
Particle Size Distribution:	All particulate is in the respirable range from 1-10 microns

METEOROLOGY:

Observations from 05/26/2009 09:00:00 CDT to 05/26/2009 12:00:00 CDT at 1 hr intervals were used in the NARAC meteorological model

Observation Met Times

- May 26, 2009 14:00 UTC
- May 26, 2009 15:00 UTC

- May 26, 2009 16:00 UTC
- May 26, 2009 17:00 UTC

No precipitation is included in this calculation

CONTACT INFORMATION:

Calculation requested on May 26, 2009 17:25 UTC by:

Michael Dillon, NARAC - Operations
925-422-6180
dillon7@llnl.gov

Approved by: IMAAC Operations
Approver organization: IMAAC
Phone: 925-422-9100
Email: imaac@llnl.gov
Approved on: May 26, 2009 17:28 UTC

Classification: Not For Public Dissemination

DISCLAIMER:

These model predictions are intended to be guidance, and are not final recommendations. The accuracy of any prediction will be limited by the accuracy of the input data, such as estimates of the amount of material that becomes airborne and the available meteorological data for the area and time of the incident. Plume predictions may be for a limited time period, and may change at later times if new input data becomes available. Predictions should be confirmed and refined using field measurements. Air and ground concentration may be higher than predicted by this plume model simulation due the limited resolution of this particular simulation. For actual incidents or exercises, consult incident command and subject matter experts from the appropriate coordinating agency before making any decisions based on this model prediction.

This document was prepared as an account of work sponsored by an agency of the United States government. Neither the United States government nor Lawrence Livermore National Security, LLC, nor Lockheed Martin, nor Sandia Corporation, nor any of their employees makes any warranty, expressed or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States government or Lawrence Livermore National Security, LLC. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States government or Lawrence Livermore National Security, LLC, and shall not be used for advertising or product endorsement purposes.

This work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.

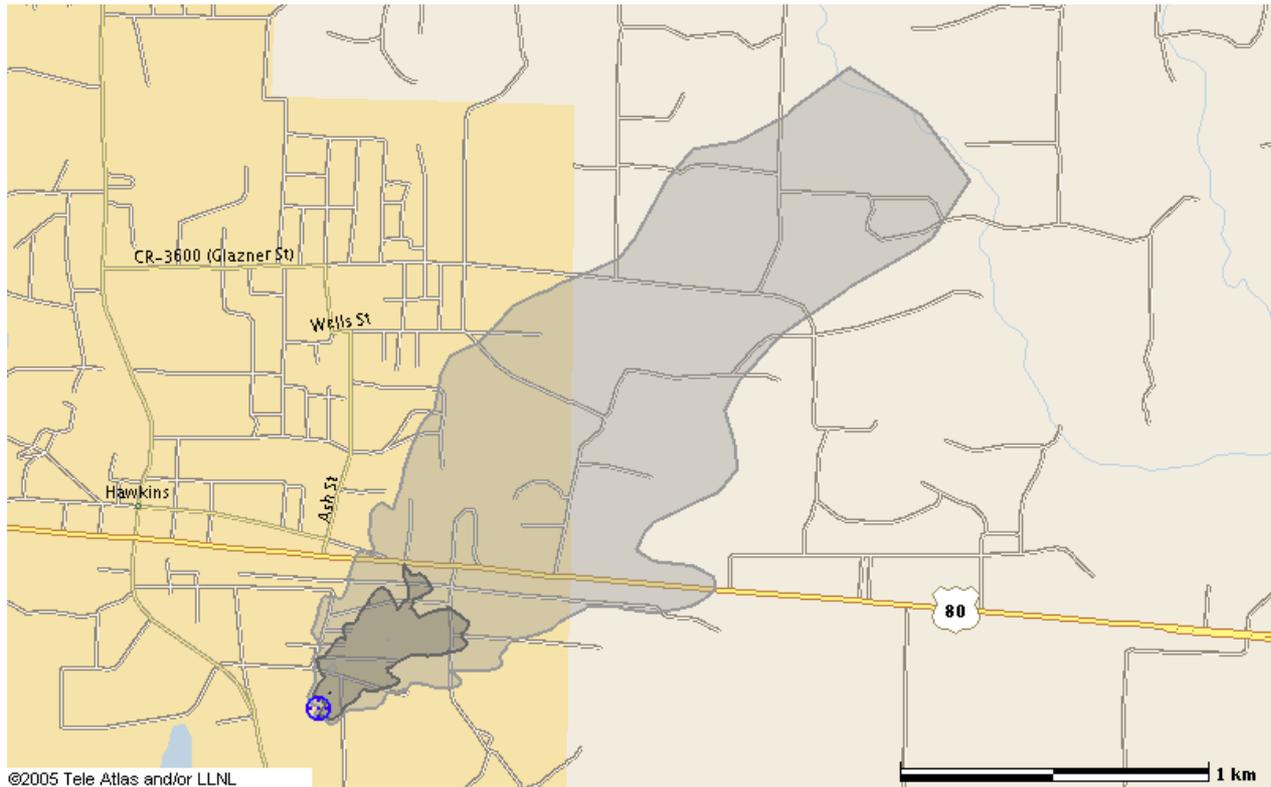
The Department of Homeland Security sponsored the production of this material under the Department of Energy contract for the management and operation of Lawrence Livermore National Laboratory.



Not For Public Dissemination

1 Hr Avg Air Conc. at
05/26/2009 15:05:00 UTC

Set 1 - Plume based on
observed data
Automated Report - Actual
Release



©2005 Tele Atlas and/or LLNL

Effects and Actions

	Description	Level (g/m3)	Extent	Area	Population
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-8	0.06km	0.0001 km2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-9	0.6km	0.1 km2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-10	2.8km	1.7 km2	70

Note: Areas and counts in the table are cumulative. Population Source = LandScanUSA10.

Effects or contamination from May 26, 2009 14:05 UTC to May 26, 2009 15:05 UTC at or near ground level.

Release Location: 32.582458 N, 95.198950 W **Material:** particulate

Generated On: May 26, 2009 17:20 UTC

Model: ADAPT/LODI

Comments:

Hypothetical release

05/26/2009 09:05:00 CDT for 16 hr

met obs

Map Size: 4.1 km by 2.6 km **Id:** Production.rcE17023.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Michael Dillon; NARAC - Operations; 925-422-6180; dillon7@llnl.gov}

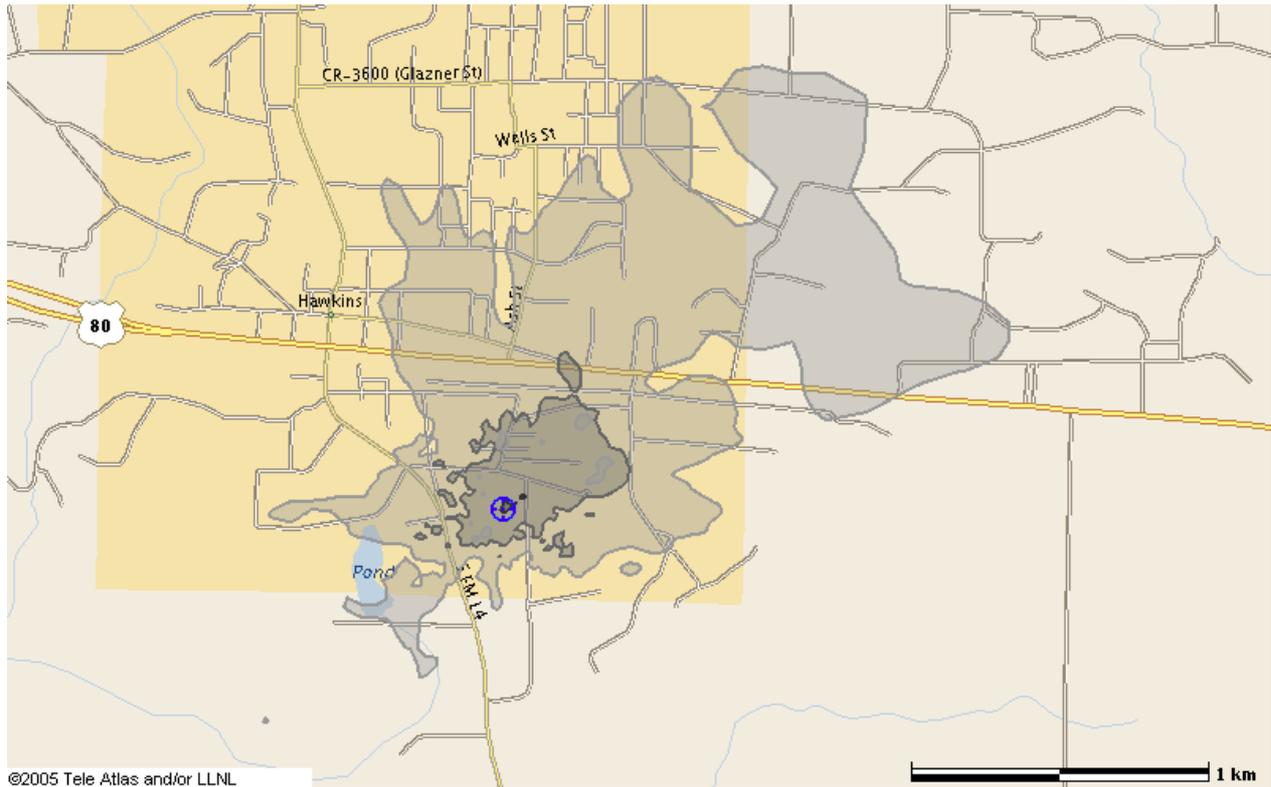
Approved by: {IMAAC Operations; IMAAC; 925-422-9100}



Not For Public Dissemination

1 Hr Avg Air Conc. at
05/26/2009 16:05:00 UTC

Set 1 - Plume based on
observed data
Automated Report - Actual
Release



©2005 Tele Atlas and/or LLNL

Effects and Actions

	Description	Level (g/m3)	Extent	Area	Population
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-8	0.08km	0.001 km2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-9	0.6km	0.2 km2	20
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-10	1.9km	2.0 km2	220

Note: Areas and counts in the table are cumulative. Population Source = LandScanUSA10.

Effects or contamination from May 26, 2009 15:05 UTC to May 26, 2009 16:05 UTC at or near ground level.

Release Location: 32.582458 N, 95.198950 W **Material:** particulate

Generated On: May 26, 2009 17:20 UTC

Model: ADAPT/LODI

Comments:

Hypothetical release

05/26/2009 09:05:00 CDT for 16 hr

met obs

Map Size: 4.3 km by 2.7 km **Id:** Production.rcE17023.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Michael Dillon; NARAC - Operations; 925-422-6180; dillon7@llnl.gov}

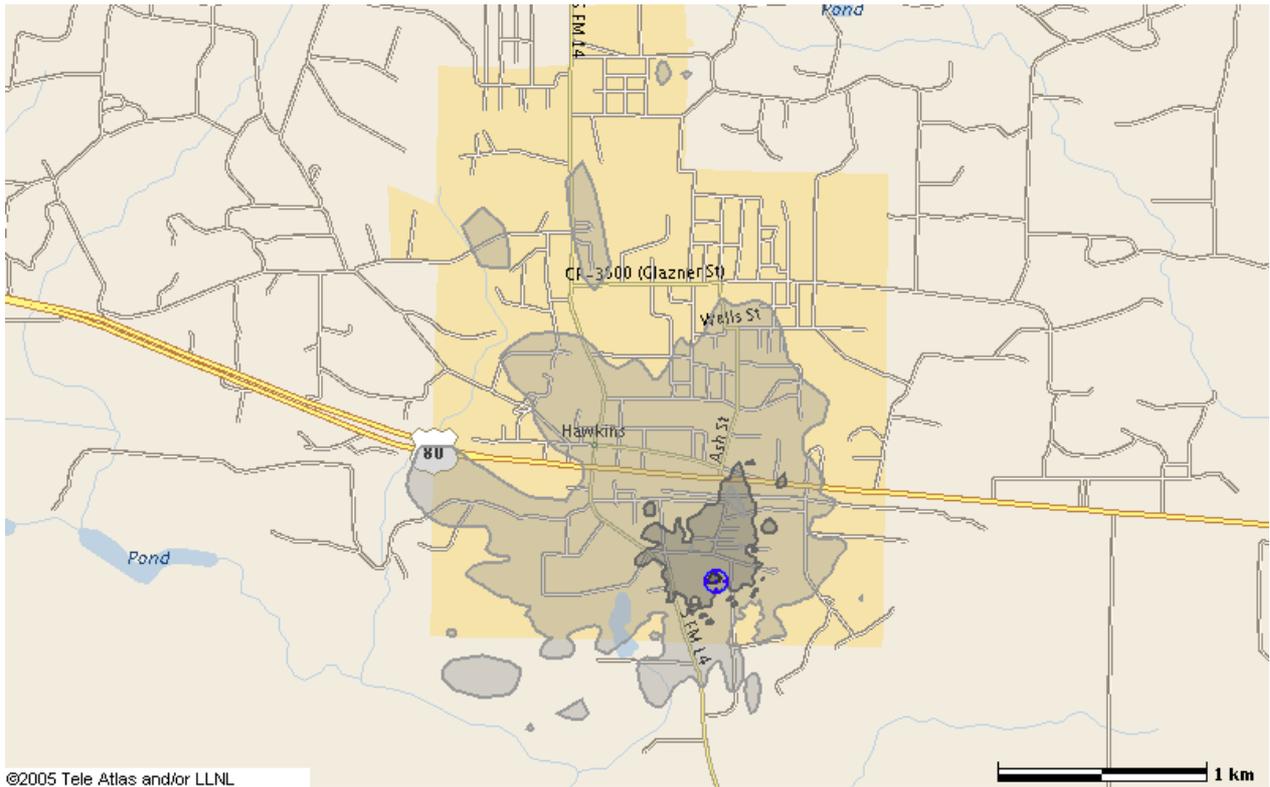
Approved by: {IMAAC Operations; IMAAC; 925-422-9100}



Not For Public Dissemination

1 Hr Avg Air Conc. at
05/26/2009 17:05:00 UTC

Set 1 - Plume based on
observed data
Automated Report - Actual
Release



Effects and Actions

	Description	Level (g/m3)	Extent	Area	Population
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-8	0.04km	0.002 km2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-9	0.6km	0.2 km2	50
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-10	2.5km	2.5 km2	1,010

Note: Areas and counts in the table are cumulative. Population Source = LandScanUSA10.

Effects or contamination from May 26, 2009 16:05 UTC to May 26, 2009 17:05 UTC at or near ground level.

Release Location: 32.582458 N, 95.198950 W **Material:** particulate

Generated On: May 26, 2009 17:20 UTC

Model: ADAPT/LODI

Comments:

Hypothetical release

05/26/2009 09:05:00 CDT for 16 hr

met obs

Map Size: 6.1 km by 3.8 km **Id:** Production.rcE17023.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Michael Dillon; NARAC - Operations; 925-422-6180; dillon7@llnl.gov}

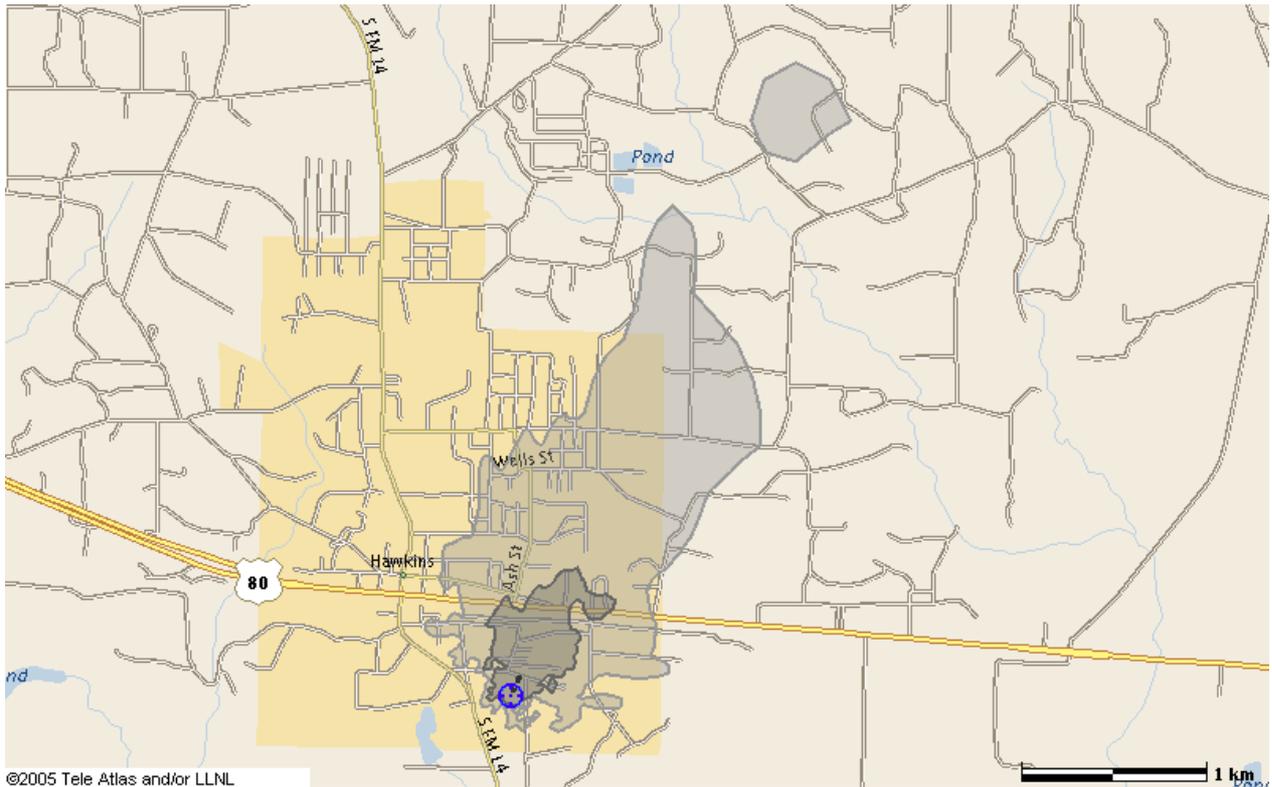
Approved by: {IMAAC Operations; IMAAC; 925-422-9100}



Not For Public Dissemination

1 Hr Avg Air Conc. at
05/26/2009 18:05:00 UTC

Set 1 - Plume based on
observed data
Automated Report - Actual
Release



©2005 Tele Atlas and/or LLNL

Effects and Actions

	Description	Level (g/m3)	Extent	Area	Population
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-8	0.1km	0.0007 km2	0
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-9	0.8km	0.3 km2	50
	No guidelines specified. Possibly contaminated area. Use to confirm with monitoring surveys.	>1.00E-10	3.8km	2.5 km2	190

Note: Areas and counts in the table are cumulative. Population Source = LandScanUSA10.

Effects or contamination from May 26, 2009 17:05 UTC to May 26, 2009 18:05 UTC at or near ground level.

Release Location: 32.582458 N, 95.198950 W **Material:** particulate

Generated On: May 26, 2009 17:20 UTC

Model: ADAPT/LODI

Comments:

Hypothetical release

05/26/2009 09:05:00 CDT for 16 hr

met obs

Map Size: 6.8 km by 4.3 km **Id:** Production.rcE17023.rcC1

NARAC Operations: (onDuty Assessor); narac@llnl.gov; 925-424-6465

Requested by: {Michael Dillon; NARAC - Operations; 925-422-6180; dillon7@llnl.gov}

Approved by: {IMAAC Operations; IMAAC; 925-422-9100}