

# Stoller

*established 1959*Task Order LM00-502  
Control Number 14-0313

January 22, 2014

Mr. Michael Fair  
Hamilton County Environmental Services  
250 William Howard Taft Road  
First Floor  
Cincinnati, OH 45219

SUBJECT: Open Burning Request Forms

Dear Mr. Fair:

Please find enclosed for your review and approval, seven Open Burning Request Forms for prescribed burns planned for the Fernald Preserve for spring 2014. Five of the requests are for areas that were approved for the fall of 2014 (Borrow Area West Bank, Canary Marsh, Irwin Prairie North, Morgan's Corner Savanna, and Snail Prairie), but weather prevented them from being implemented.

Maps and a copy of the Fernald Preserve Prescribed Burn Plan pertinent to the Open Burn Request are also enclosed with each request. The first map identifies smoke sensitive facilities within five miles of the Fernald Preserve and prescribed acceptable wind directions. The second map shows the location of the fire on the Fernald Preserve property. The third map identifies the fire boundary and close proximity. Each Fernald Preserve Prescribed Burn Plan contains the smoke management strategy for the planned burn.

Please contact Harold Swiger at (513) 648-7528 if you have any questions or require additional information.

Sincerely,

William A. Hertel  
Stoller Site Manager

WAH/HS:jp

Enclosure

cc: John Homer, Stoller  
Harold Swiger, Stoller  
rc-ferald (Thru B. Irvine)



**Personal Information**

Full Name: **SWIGER** **HAROLD** **E**  
*Last First M.I.*

Address: **10995 HAMILTON-CLEVES ROAD**  
*Street Address Apartment/Unit #*

**HARRISON** **OHIO** **45030**  
*City State ZIP Code*

Home Phone: **513-648-7528** Alternate Phone: XXXXXXXXXX

**Open Burning Site Information**

Burn Site Address: **Fernald Preserve, 7400 Willey Road**  
*Street Address*

**Crosby Township** **Hamilton**  
*City or Township County*

- 1) Provide a sketch of the burn location below or on an attached sheet. Include the location of the site and burn location within the site, nearest road intersection(s) and distance to/placement of nearest off-site structures including a map showing distances to residences, populated areas, roadways, air fields, and other pertinent landmarks.

**Maps containing burn location and identifying the five mile radius are attached.**

- 2) Describe the purpose for the burn.

Choose a category:

- Land Clearing
- Recognized horticultural, silvicultural, range management or wildlife management practices
- Fires and/or pyrotechnics as part of film-making or video production
- Prevention or control of disease or pests
- Disposal of ignitable or explosive materials
- Instruction for methods of fire fighting or for research in the control of fire (complete item 4 below)

Provide a brief written description of your proposed burn:

**The Borrow Area West Bank Burn is located on the south end of the Fernald Preserve site to the east of the site's Access Road. The burn area is an east facing bank that slopes from the Lodge Pond Trail into the pond basin. The area is bound on the west and south by the Lodge Pond Trail. The area consist of tall grass prairie grasses on the north and changes to cool season grasses on the south. A few woody stems are growing on the slope.**

**The purpose of the burn will be to reduce the amount of thatch within the area, to reduce the amount of cool season grasses, and to promote early spring growth of native tall grass prairie species.**

Open Burning Request Form

- 3) Describe the material to be burned and the quantity of the material to be burned for any category identified in 2 above except for "Instruction for methods of fire fighting or for research in the control of fire" [see the following web link for what can be burned: <http://www.epa.state.oh.us/dapc/regs/3745-19/3745-19-03.pdf>]

**BA West Bank Burn – Approximately 2.6 acres**

**Fuel Types:**

<b>Fuel Model 1 – grass less than 3 feet in height</b>	<b>39 % of Unit Area</b>
<b>Fuel Model 3 – grass greater than 3 feet in height</b>	<b>60 % of Unit Area</b>
<b>Fuel Model 9 – woody debris</b>	<b>1 % of Unit Area</b>

**Fuel Loads are moderate.**

- 4) To be completed if "Instruction for methods of fire fighting or for research in the control of fire" is chosen in 2, above. If a structure is to be burned for fire training purposes, call the asbestos program coordinator to obtain a copy of the NESHAPS regulations (614-644-2270).
- a. Asphalt shingles should be removed prior to burning. Have they been removed?  
 Yes  No  Not Applicable
  - b. Vinyl siding should be removed prior to burning. Has all vinyl siding been removed?  
 Yes  No  Not Applicable
  - c. Asbestos containing material may need to be removed <sup>1</sup>prior to burning. Friable asbestos must be removed by a licensed asbestos abatement contractor. Have all asbestos containing materials been removed?  
 Yes  No  Not Applicable

- 5) Did the material to be burned originate from the same site where it is being burned?  
 Yes  No

- 6) Is the burning site located within a restricted area? A restricted area is defined as the area within the boundaries of any municipal corporation (plus a 1,000 foot zone around cities having a population of 1,000 - 10,000 and a one (1) mile zone around cities greater than 10,000).  
 Yes  No

- 7) Provide the date(s) and Time(s) when the burning is anticipated to take place:

Begin	
Date	Time

End	
Date	Time

Or,

For recognized horticultural, silvicultural, range management or wildlife management practices, please identify the range of dates and times the burn is expected to occur:

**From: February 17, 2014 To: May 23, 2014**

<sup>1</sup> All demolition/renovation must be reported. If ACM is present, notification or approval for removal must be completed. See instructions for more details.

Open Burning Request Form

8) What methods or actions will be taken to reduce the emission of air contaminants?

**Current and forecast meteorological data will be utilized to identify wind and atmospheric conditions for the area. The effects of smoke to the local area and the ambient air quality will be minimized by burning only on days with upward air movement. Prescribed burn will be limited to days when the air currents would lift the smoke to altitudes above 1700 feet. Weather thresholds would also include direction of wind. If smoke could be blown towards sensitive areas without sufficient atmospheric lift, then the burn would be postponed.**

**A copy of prescribed fire burn plan is attached with five mile sensitive area map.**

**Fire Department Section**

1) Local ordinances may prohibit burning, or require additional restrictions. Please identify the local fire department where the burn will take place. Please obtain signature of the Fire Chief (note, this is not required but failure to notify may subject you to violation of local ordinances).

Fire Department Section			
Fire Chief (printed name):	Bruce Downard		
Name of Fire Department:	Crosby Township Fire Department		
Address:	9139 Baughman Road	Crosby Township	45030
	<i>Street</i>	<i>City/Township</i>	<i>Zip Code</i>
Phone Number	( 513 ) 738-1831		
Signature of Fire Chief:			
Comments from Fire Chief (if any):			

**Submission Certification**

I, certify that the information set forth above is true and complete.

I realize that the Ohio EPA, after this request, may determine that the open burning is not allowed under its regulations, or may impose certain requirements as part of approval of my request, and shall notify me to that effect once they make such a determination.

In addition, I realize that no open burning shall be conducted in an area where an air pollution alert, warning, or emergency is in effect and that submission of this notification of intent does not exempt me from compliance with any other state or local regulation or ordinance.

  
Signature

2-17-2014  
Date

# Open Burning Request Form Instructions

# BA West Prescribed Burn Acceptable Wind Direction



Burn Areas	Road-paved	Trail	
Safety Zone	Road-gravel	Overlook	
Piezometer	Intermittent Stream	1 foot contour	
Monitoring Wells	Open Water	Treeline	
Building	Wetland	for Intermittent Drain Line	
Fernald Preserve Boundary			

U.S. DEPARTMENT OF ENERGY  
HAMILTON, OHIO

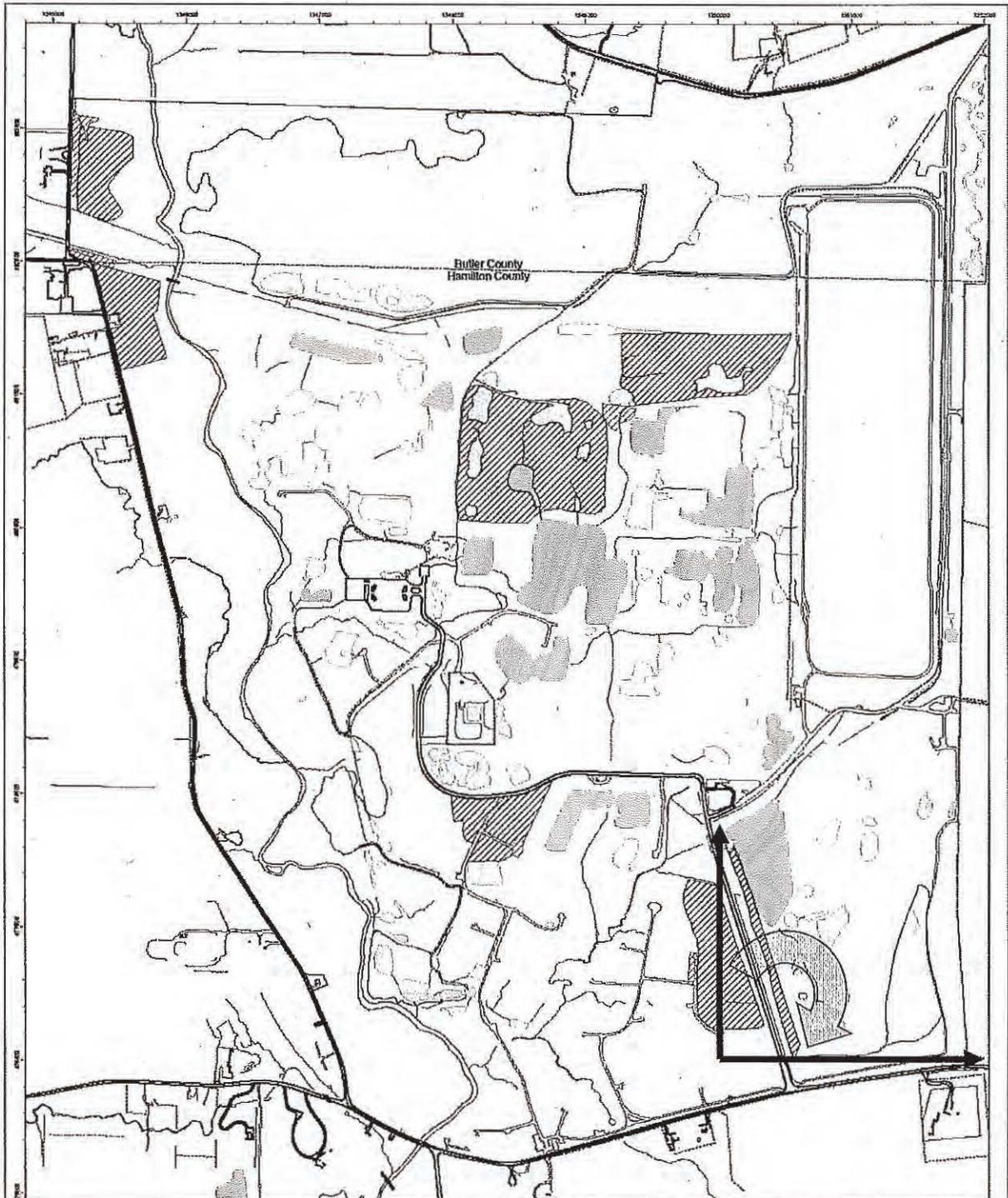
Fernald Preserve  
Barrow Area West Bank  
Prescribed Burn Area

DATE PREPARED: 1/14/2014

Prepared by:  
S.M. Sledge Corporation  
10000 Center  
St. Louis, MO 63143

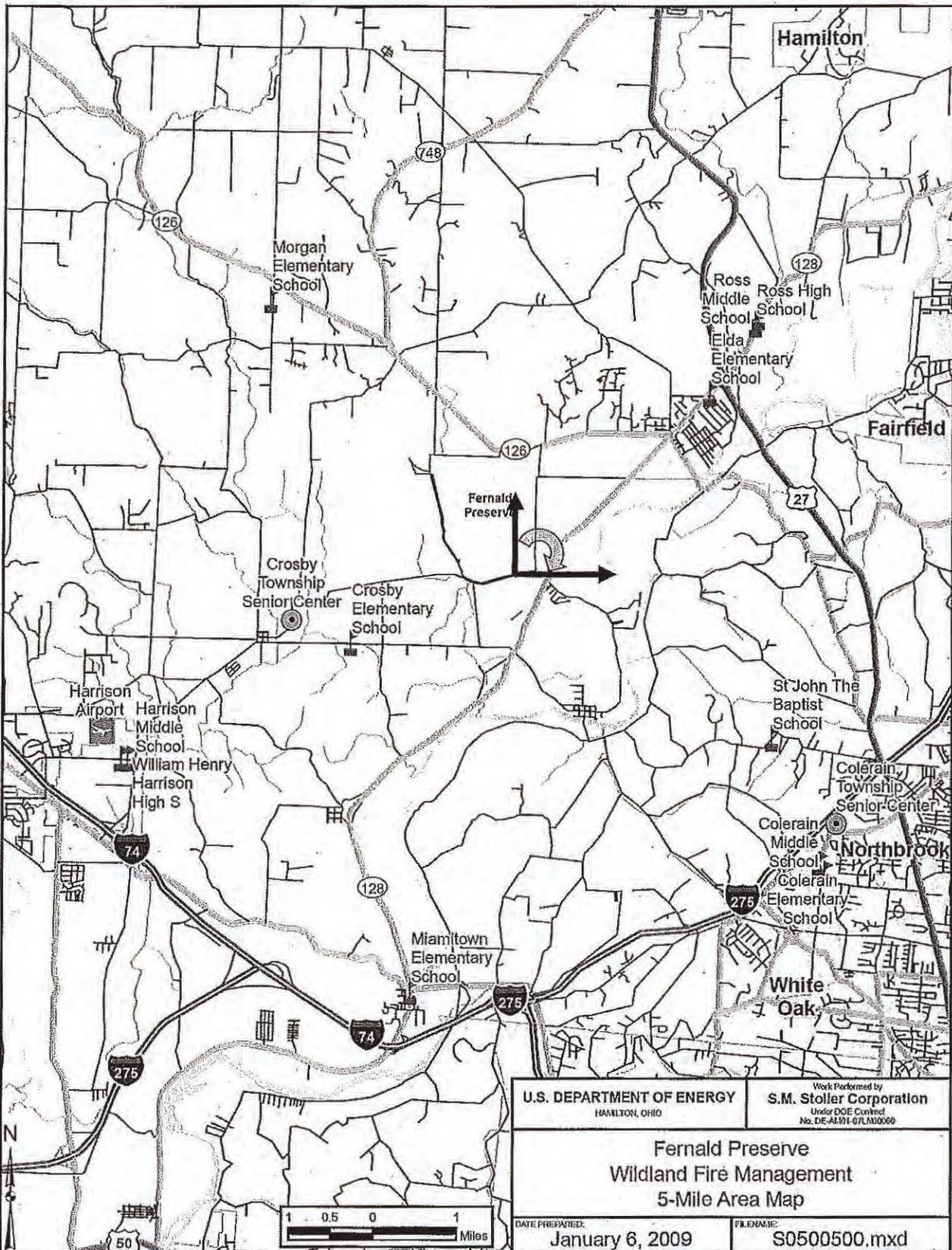
FILE NAME:  
for\_burn\_ba\_west\_bank

# BA West Prescribed Burn Acceptable Wind Direction



<ul style="list-style-type: none"> <li>— Pathway</li> <li>--- Butler-Hamilton County Line</li> <li>▨ Safety Area</li> <li>▩ Burn Area</li> <li>□ Fernald Preserve Boundary</li> </ul>	<ul style="list-style-type: none"> <li>— Paddy's Run</li> <li>--- Fence</li> <li>— Road-paved</li> <li>— Road-gravel</li> <li>— Intermittent Stream</li> </ul>	<ul style="list-style-type: none"> <li>■ Open Water</li> <li>□ Wetland</li> <li>--- Intermittent Drain line</li> <li>— Trail</li> </ul>	<p>1:10,000 Scale: North 0° 00' 00" South</p>	<p>U.S. DEPARTMENT OF ENERGY EMWALON, OHIO</p>	<p>Joint Venture of S.M. Stoller Corporation and U.S. Coast and GE Energy Services</p>
<p>Fernald Preserve Prescribed Burn Areas</p>				<p>DATE PREPARED: January 14, 2014</p>	<p>FILE NAME: Fernald_Prescribed_Burn_Areas</p>

# BA West Prescribed Burn Acceptable Wind Direction



U.S. DEPARTMENT OF ENERGY HAMILTON, OHIO	Work Performed by S.M. Stoller Corporation Under DOE Contract No. DE-AC01-07LN30060
<b>Fernald Preserve Wildland Fire Management 5-Mile Area Map</b>	
DATE PREPARED: January 6, 2009	FILENAME: S0500500.mxd



## Fernald Preserve Prescribed Fire Burn Plan

**Burn Name:** BA West Bank      **Burn Manager:** Harold Swiger #2007019      **Date of Fire:** \_\_\_\_\_

**Burn Location:** The burn area is on the Fernald Preserve at 7400 Willey Road, 45030. Area is located on the south end of the site to the east of the site's South Access Road. The burn area is bound on the west and south by the Lodge Pond Trail and on the east by the Lodge Pond and basin (see attached map).

**County:**  Butler (Ross Township)     Hamilton (Crosby Township)      **State:** Ohio

**Burn Size:** Approximately 2.6 acres

**Site Description:** The burn area is an east facing bank that slopes from the Lodge Pond Trail down to the pond on the north end and to the basin on the south. The vegetation consists of tall grass prairie components with cool season grass areas mixed in on the south. A few woody stems are growing on the slope. The terrain is uneven along the bank of the Lodge Pond.

<b>Fuel Types:</b>	Fuel Model 1 – grass less than 3 feet in height	39	% of Unit Area
	Fuel Model 3 – grass greater than 3 feet in height	60	% of Unit Area
	Fuel Model 9 – woody debris	1	% of Unit Area
			% of Unit Area

**Purpose of Burn:** Improve grass composition and maintain plant health and growth

- Burn Objectives:**
- Reduce thatch levels
  - Control undesirable and invasive plant species
  - Promote early growth of desirable grass and forb species

Permits	Submittal Date	Receipt Date
Ohio Div. of Forestry Request for Waiver of ORC 1503.18		
Ohio EPA Open Burn Notification		

Smoke Sensitive Areas	Direction	Distance	Down Wind?
Crosby Elementary School	Southwest of site	~ 2.25 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Crosby Senior Center	Southwest of site	~ 2.86 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Morgan Elementary School	Northwest of site	~ 4.25 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Elda Elementary School	Northeast of site	~ 2.77 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Ross Middle School	Northeast of site	~ 3.80 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Ross High School	Northeast of site	~ 3.71 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
St. John the Baptist School	Southeast of site	~ 3.50 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Colerain Township Senior Center	Southeast of site	~ 4.71 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Colerain Elementary	Southeast of site	~ 4.91 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
CSX Railroad Line	West of site	~ 0.70 mile	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
State Route 126	North of site	~ 1.09 mile	Yes <input type="checkbox"/> No <input type="checkbox"/>
U.S. Hwy. 27	North of site	~ 2.92 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
State Route 128	East of site	~ 0.19 mile	Yes <input type="checkbox"/> No <input type="checkbox"/>
Interstate 275	South of site	~ 4.51 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: BORROW AREA WEST BANK Burn Manager: Harold Swiger #2007019

Wind Factors		Acceptable Range	Predicted	Actual
Surface Winds	Speed	Trace to 10 mph		
	Direction	South clockwise to West		
Transport Winds	Speed	> 3mph		
Minimum mixing height		>1700 feet		
Haines index		3 to 5		

Weather Factors		Acceptable Range	Predicted	Actual
Minimum relative humidity		30% to 55%		
Maximum temperature		38°F to 78°F		
Fine fuel moisture		6% to 20%		
Percent soil moisture		28% to 44%/25% to 40%		
Soil type			Clay/silty clay	

Fire Behavior		Acceptable Range	Actual
Type fire		Head fire into back fire	
Head-fire flame length		3 ft. to 20 ft.	
Head-fire rate of spread		2 ch/hr. to 239 ch/hr.	
Date of Burn		Feb. 17 to May 23, 2014	
Time of Burn		10:00 hrs. to 16:00 hrs.	

**Line of Responsibility**

Name of Crew Member	Responsibility	Report
Henry Becker		
Stephanie Bien		
Joey Bowles		
Ken Broberg		
Brian Dietz		
Cathy Glassmeyer		
Bill Gutzwiller		
John Homer		
Lisa McHenry		
Katie Payne		
Tim Sparks		
Scott Strickland		
Karen Voisard		
Jon Walters		
Phil Williams		
Chuck White		

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: BORROW AREA WEST BANK Burn Manager: Harold Swiger #2007019

Equipment	Location	Crew Size
3 – drip torches	Fire perimeter and interior	2 – 1 each burn direction
2 – pumps on Gator ATVs	Fire perimeter	4 – 2 crews of 2 people
1 – pump on truck	Fire perimeter at trail	1 – as needed
9 – hand tools	Fire perimeter and mop-up	9 – as needed
7 – backpack pumps	Fire perimeter and mop-up	7 – as needed
6 – fusee torches	Fire perimeter and interior	w/ Sector Bosses

**Site Preparation/Fire Breaks:** Mow a firebreak from the Lodge Pond Trail down to water's edge on north that is about 20 feet wide. Mow a firebreak from the trail down the bank to the basin on the south and continue it northward along the toe of the slope to the water's edge. Firebreak should also be about 20 feet wide.  
Mow a ten feet wide strip on the east side of the Lodge Pond Trail all along the length of the burn area.  
Mow a three feet buffer around any trail signs or wildlife structures within the burn area.  
Spray any larger patches of cool season grasses with a herbicide at least two weeks prior to the burn.

**Site Restoration Work:** Evaluate the completeness and effectiveness of the burn.  
Repair any areas which have been damaged and seed over sprayed areas with native prairie mix.

Stakeholders/Neighbors to Notify	Contact Number	Date	Time
Crosby Township Trustees	On file		
Morgan Township Trustees	On file		
Ross Township Trustees	On file		
Morgan-Ross Schools Superintendent	On file		
Northwest Schools Superintendent	On file		
Tom Schneider, Ohio EPA	On file		
Russ Beckner	On file		
Sandy Butterfield	On file		
Lisa Crawford	On file		
Bill Knollman	On file		
Dave Nieman	On file		
Dorothy Nieman	On file		
Carl Summe	On file		

Emergency Contacts	Phone	Cell
Medical/Fire/Law Enforcement	<b>911</b>	
Stoller Site Manager	(513) 648-5294	(513) 910-6107
LM Site Manager	(513) 648-3148	(513) 910-4009

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: BORROW AREA WEST BANK Burn Manager: Harold Swiger #2007019

Contact List	Contact Number	Pre-Fire Date/Time	Post-Fire Date/Time
Hamilton County Sheriff's Office	(513) 825-2280	/	/
Butler County Sheriff's Office	(513) 785-1300	/	/
Crosby Township Fire Department	(513) 738-1831	/	/
Ross Fire Department	(513) 863-3410	/	/
Ross Police Department	(513) 863-2337	/	/
Ohio State Highway Patrol	(513) 863-4606	/	/

**Site Mop-Up:** Mop-up will consist of passing through the fire area after fire is out and wetting down all smoldering and smoking debris. Embers will be cut from any large debris and soaked.

**Final Fireline Condition:** \_\_\_\_\_

**Burn Manager:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_



Recommended Open Burning Notification Form (intended for required notifications -- form itself is not required as long as the information identified herein is included in your notification)

**Personal Information**

Full Name: Swiger Harold E  
*Last First M.I.*

Address: S.M. Stoller Corp., 10995 Hamilton-Cleves Hwy.  
*Street Address Apartment/Unit #*

Harrison Ohio 45030  
*City State ZIP Code*

Home Phone: 513-648-7528 Alternate Phone:                     

**Open Burning Site Information**

Burn Site Address: 7400 Willey Road  
*Street Address*

Crosby Township Hamilton  
*City or Township County*

1) Provide a sketch of the burn location below or on an attached sheet. Include the location of the site and burn location within the site, nearest road intersection(s) and distance to/placement of nearest off-site structures including a map showing distances to residences, populated areas, roadways, air fields, and other pertinent landmarks.

**Maps containing burn location and five mile radius are attached.**

2) Describe the purpose for the burn.

Choose a category:

- Prevention or control of disease or pests, with written or verbal verification to the Ohio EPA from the local health department, cooperative extension service, Ohio department of agriculture, or U.S. department of agriculture, that open burning is the only appropriate disposal method.
- Recognized horticultural, silvicultural, range management or wildlife management practices
- Bonfires or campfires used for ceremonial purposes
- Disposal of agricultural waste generated on the premises

Provide a brief written description of your proposed burn:

Canary Marsh burn is located in the southern half of the Fernald Preserve site. The burn area is located along the south side of the site's Access Drive south of site water treatment plant. The area has two gravel roads that break the area into three separate areas (see map). The area is a slow draining, relatively flat area with pockets or depressions that hold water during wet seasons. Vegetation consists of mesic prairie grasses and forbs; wetland grasses, sedges, rushes, and forbs; and a few pines, cottonwood, sycamore, and willow species in small clumps. Additionally, large patches of the invasive Reed Canary Grass are growing within the burn area. The Reed Canary Grass has been sprayed with herbicide as part of a treatment to eradicate it within the burn area.

**Recommended Open Burning Notification Form** (intended for required notifications – form itself is not required as long as the information identified herein is included in your notification)

3) Describe the material to be burned and the quantity of the material to be burned for any category identified in 2 above

Canary Marsh Burn is approximately 5.12 acres in size.

Fuel types include:

- Fuel Model 1 – grass <3 feet in height	2	% of Unit Area
- Fuel Model 3 – grass >3 feet in height	91	% of Unit Area
- Fuel Model 9 – woody debris	7	% of Unit Area

Fuel loads are moderate

4) Did the material to be burned originate from the same site where it is being burned?  
 Yes  No

5) Provide the date(s) and Time(s) when the burning is anticipated to take place:

Begin		End	
Date	Time	Date	Time

Or,

For recognized horticultural, silvicultural, range management or wildlife management practices, please identify the range of dates and times the burn is expected to occur:

From: February 17, 2014 To: May 23, 2014

6) What methods or actions will be taken to reduce the emission of air contaminants?

Current and forecast meteorological data will be utilized to identify wind and atmospheric conditions for the area. The effects of smoke to the local area and the ambient air quality will be minimized by burning only on days with upward air movement. Prescribed burn will be limited to days when the air currents would lift the smoke to altitudes above 1700 feet. Weather thresholds would also include direction of wind. If smoke could be blown towards sensitive areas without sufficient lift, then the burn would be postponed. A copy of prescribed fire burn plan is attached with five mile sensitive area map.

**Recommended Open Burning Notification Form** (intended for required notifications – form itself is not required as long as the information identified herein is included in your notification)

1) Local ordinances may prohibit burning, or require additional restrictions. Please identify the local fire department where the burn will take place. Please obtain signature of the Fire Chief (note, this is not required but failure to notify may subject you to violation of local ordinances).

Fire Department Section			
Fire Chief (printed name):	Bruce Downard		
Name of Fire Department:	Crosby Township Fire Department		
Address:	9139 Baughman Road	Crosby Township	45030
	<i>Street</i>	<i>City/Township</i>	<i>Zip Code</i>
Phone Number	(513) 738-1831		

Fire Department Section (continued)	
Signature of Fire Chief:	
Comments from Fire Chief (if any):	

**Submission Certification**

I, certify that the information set forth above is true and complete.

I realize that the Ohio EPA, after this notification, may determine that the open burning is not allowed under its regulations, or may impose certain requirements as part of review of my request, and shall notify me to that effect once they make such a determination. I hereby certify that the burn presented in the notification above will not occur less than ten (10) working days before the fire is to be set. I recognize that Saturday, Sunday, and legal holidays are not considered a working day.

In addition, I realize that no open burning shall be conducted in an area where an air pollution alert, warning, or emergency is in effect and that submission of this notification of intent does not exempt me from compliance with any other state or local regulation or ordinance.

  
Signature

2-17-2014  
Date

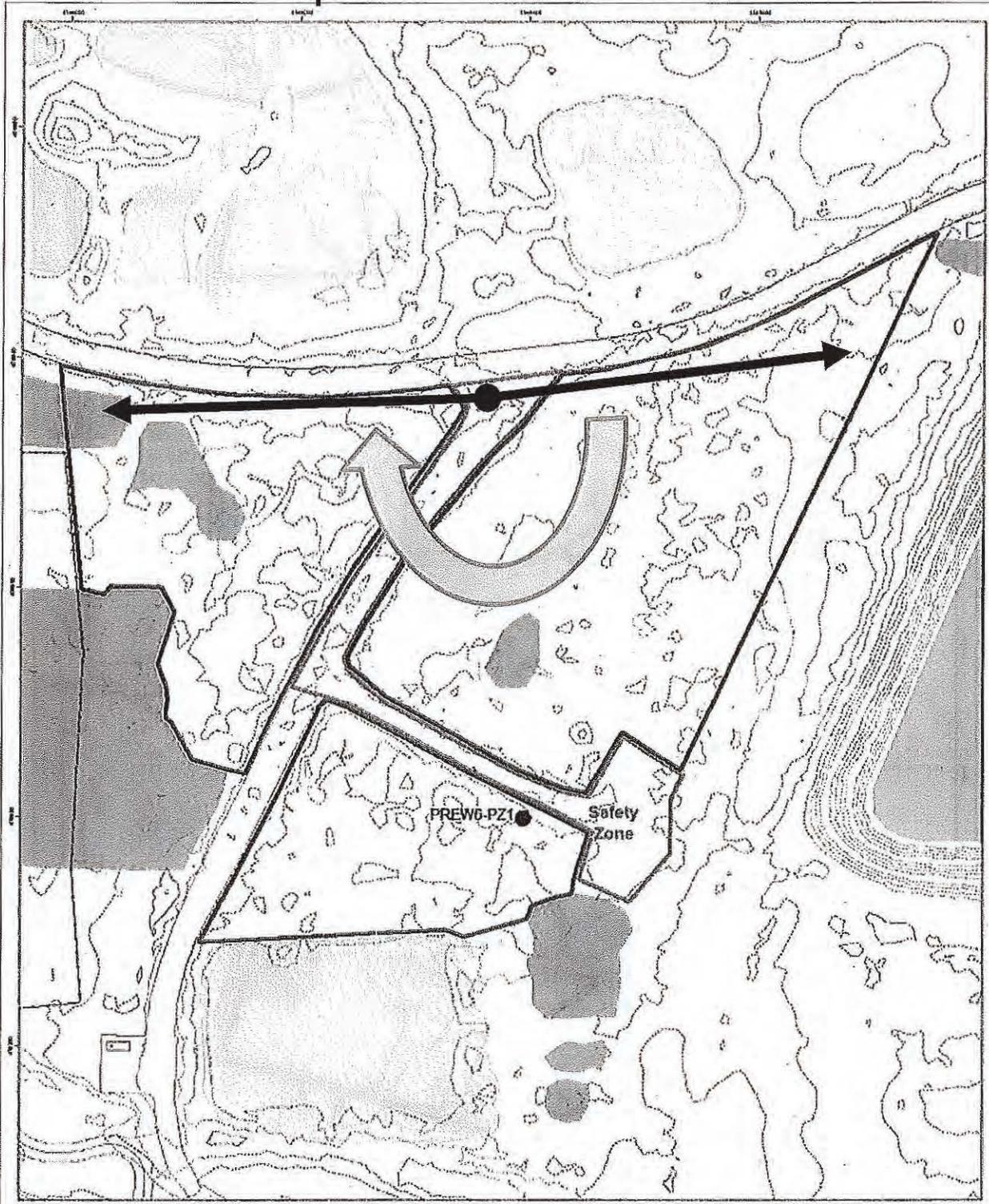
### Submission Certification

Sign and date the notification. Note the signature criteria prior to signing the notification. Ohio is substantially in attainment with the national ambient air quality standards. As a result, air pollution emergencies and warnings very are rare in Ohio. The following link provides the technical criteria for air pollution emergencies and warnings: <http://www.epa.ohio.gov/portals/27/regs/3745-25/3745-25-02.pdf> In addition, it is also important to check your local forecast for weather conditions prior to burning to make sure conditions are such that they will minimize air pollution impacts.

#### Additional important information to note:

- The Ohio Department of Natural Resources has statutory authority for reviewing requests to conduct prescribed burns (e.g., burning off fields to promote prairie grasses). In addition, concerned with the potential for brush and forest fires, the ODNR Division of Forestry prohibits outdoor burning in rural areas between the hours of 6 a.m. and 6 p.m. during the typically dry months of March, April, May, October and November. So, regardless of if Ohio EPA grants permission to open burn from an environmental perspective, if you live in an unincorporated area, ODNR may deny permission to burn during these times/months due to fire safety concerns. For more information, see the following ODNR resources:  
<http://www.dnr.state.oh.us/Portals/18/fire/pdf/OhioFireLaw.pdf>  
<http://www.dnr.state.oh.us/forestry/Home/fire/wildfire/tabid/5146/Default.aspx>
- Some local jurisdictions may have additional restrictions on burning materials or burning at times that are otherwise approvable under Ohio EPA's open burning rules. The following links can be used to access Ohio township and city/village websites:  
Townships via the Ohio Township Association  
<http://cpmra.muohio.edu/otaohio/Websites.htm>  
Cities & Villages via the Ohio Municipal League  
<http://www.omloho.org/OMLMunicipalData/omlmunidata.htm>

# Canary Marsh Prescribed Burn Acceptable Wind Direction

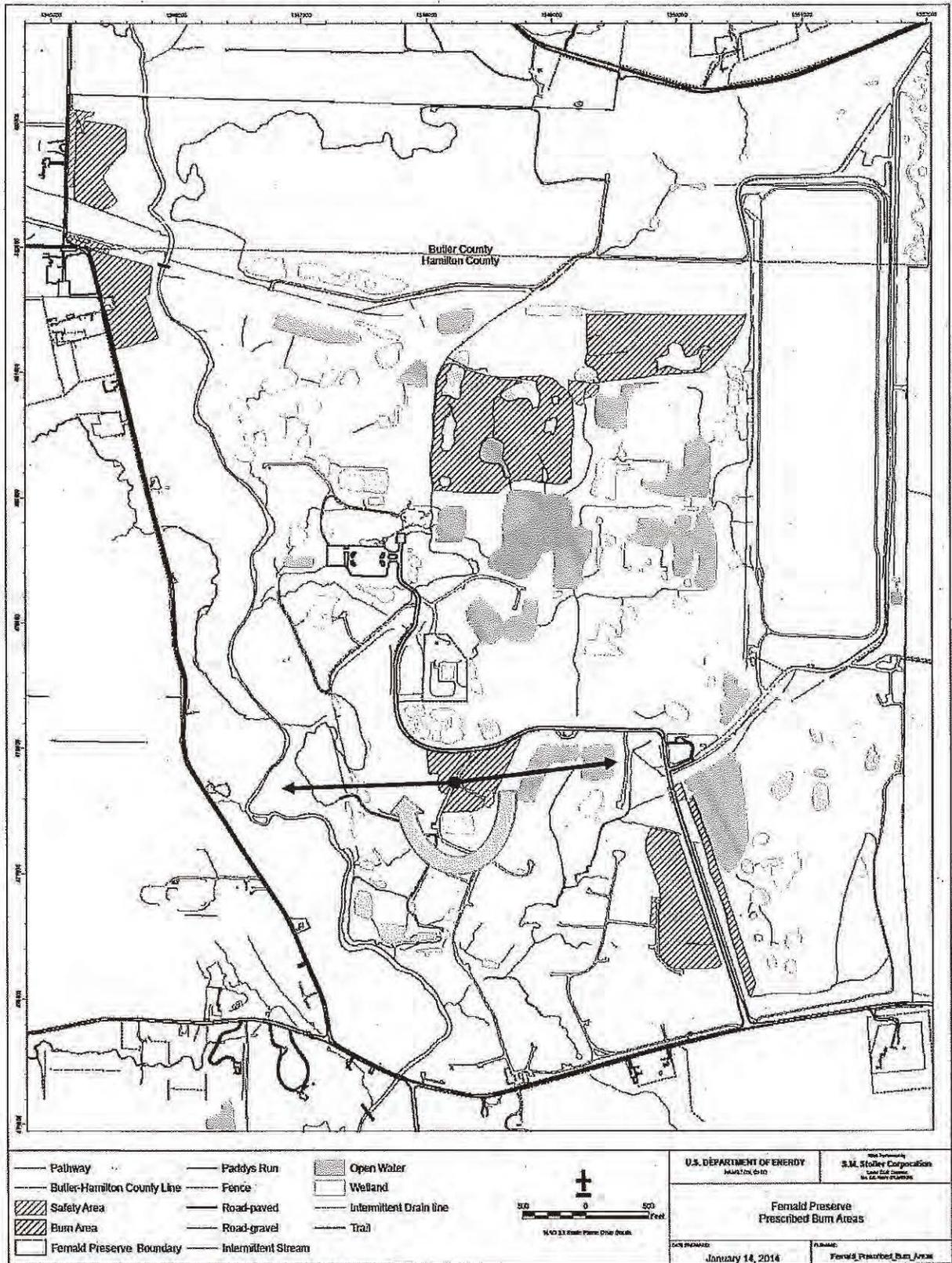


<b>Fire Burn Area</b>	Trail	Intermittent Stream
Dum	Open Water	Deer Fence
Safety	Wetland	
Road-paved	TreeLine	
Road-gravel		
Acceptable Wind Direction		

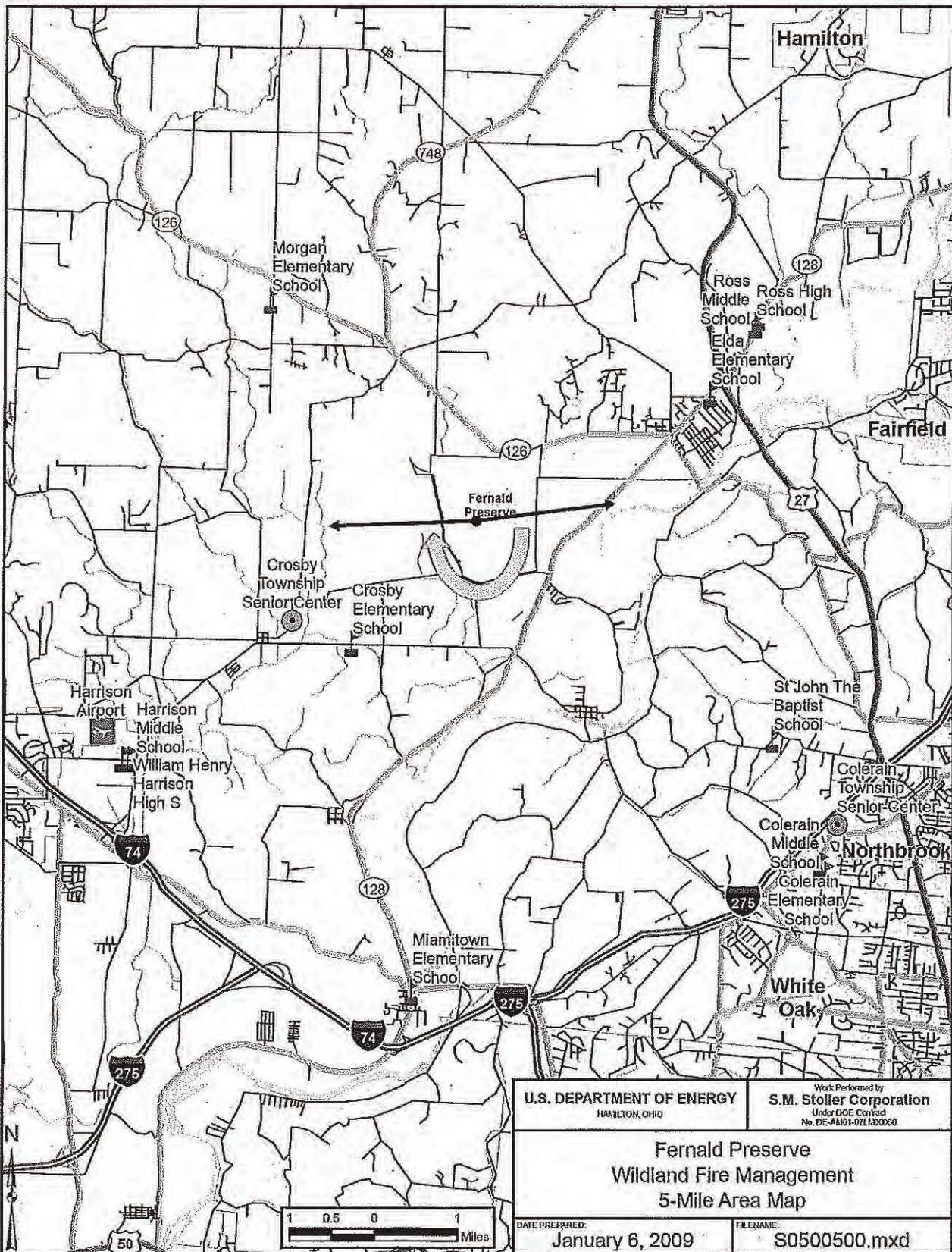
U.S. DEPARTMENT OF ENERGY MARJON 091	Prepared by <b>S.M. Staffer Corporation</b> 1000 Air Center St. Louis, Missouri
<b>Fernald Preserve                  Canary Marsh Prescribed Burn Area</b>	
Date Issued: August 15, 2013	Revision: No. burn_area_marv1_2013

Soil Survey of the Fernald Preserve, Montgomery County, Maryland, by the U.S. Department of Agriculture, Soil Conservation Service, 1982.

# Canary Marsh Prescribed Burn Acceptable Wind Direction



# Canary Marsh Prescribed Burn Acceptable Wind Direction





## Fernald Preserve Prescribed Fire Burn Plan

**Burn Name:** Canary Marsh PRE **Burn Manager:** Harold Swiger #2007019 **Date of Fire:** \_\_\_\_\_

**Burn Location:** The Canary Marsh Prescribed Burn is located at the Fernald Preserve at 7400 Willey Road, in Crosby Township of Hamilton County, Ohio. The burn is located on the south side of the site's South Access Road (see attached map) and had the gravel road leading to site's south field running through its center. PRE

**County:**  Butler (Ross Township)  Hamilton (Crosby Township) **State:** Ohio

**Burn Size:** 5.12 acres

**Site Description:** The area is a slow draining, relatively flat area with pockets of depressions that hold water during wet seasons. Vegetation consists of mesic prairie grasses and forbs; wetland grasses, sedges, rushes, and forbs; and a few pines, cottonwood, sycamore, and willow species in small clumps. Additionally, large patches of the invasive Reed Canary Grass are growing within the burn area. The Reed Canary Grass has been sprayed with herbicide as part of a treatment to eradicate it within the burn area.

The northern boundary is the South Access Road which could have considerable traffic. There is an electronic gate and solar panel for gravel road coming off of the South Access Road. The gravel roads divide the area into three separate compartments that will need to be burned individually. An overhead electrical line runs along the eastern edge of the area, and a deer fence and the south pines run along the western edge of the burn area.

<b>Fuel Types:</b>	Fuel Model 1 – grass less than 3 feet in height	2	% of Unit Area
	Fuel Model 3 – grass greater than 3 feet in height	91	% of Unit Area
	Fuel Model 9 – woody debris	7	% of Unit Area

**Purpose of Burn:** Reduce/eliminate invasive grass and forb levels and maintain plant health and growth

**Burn Objectives:** To burn reed canary grass stems and seeds in duff

- To remove standing grass and small debris
- To expose soil for future treatment

Permits	Submittal Date	Receipt Date
Ohio Div. of Forestry Request for Waiver of ORC 1503.18		
Ohio EPA Open Burn Notification		

Smoke Sensitive Areas	Direction	Distance	Down Wind?
Harrison Airport	Southwest of site	4.91 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Harrison Middle/High Schools	Southwest of site	4.88 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Crosby Elementary School	Southwest of site	1.91 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Crosby Township Senior Center	Southwest of site	2.40 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Morgan Elementary School	Northwest of site	3.78 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Eldá Elementary School	Northeast of site	3.28 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Ross Middle/High Schools	Northeast of site	4.18 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
St. John The Baptist School	Southeast of site	4.22 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
CSX Railroad	West of site	0.38 mile	Yes <input type="checkbox"/> No <input type="checkbox"/>
State Route 128	East of site	0.91 mile	Yes <input type="checkbox"/> No <input type="checkbox"/>
State Route 126	North of site	1.10 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
US Route 27	North of site	3.49 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: Canary Marsh

Burn Manager: Harold Swiger #2007019

Wind Factors		Acceptable Range	Predicted	Actual
Surface Winds	Speed	4 to 12 mph		
	Direction	West clockwise to east		
Transport Winds	Speed	≥5 mph		
Minimum mixing height		1700 ft. to 6500 ft.		
Haines index		3 to 5		

Weather Factors		Acceptable Range	Predicted	Actual
Minimum relative humidity		30% to 55%		
Maximum temperature		45° F to 78° F		
Fine fuel moisture		6% to 20%		
Soil Moisture		>28% / >22%		
Soil Type		Clay / clay loam		

Fire Behavior		Acceptable Range	Actual
Type fire		Ring fires/head fires	
Head-fire flame length		2.4 ft. to 22.6 ft.	
Head-fire rate of spread		35 ch/h to 365 ch/h	
Date of Burn		Feb. 17 – May 23, 2014	
Time of Burn		10:00 hrs. to 18:00 hrs.	

**Line of Responsibility**

Name of Crew Member	Responsibility	Report
Henry Becker		
Stephanie Bien		
Joey Bowles		
Ken Broberg		
Brian Dietz		
Cathy Glassmeyer		
Roger Grant		
Bill Gutzwiller		
John Homer		
Lisa McHenry		
Larry Oeffner		
Katie Payne		
Tim Sparks		
Scott Strickland		
Karen Voisard		
Jon Walters		
Phil Williams		
Chuck White		

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: Canary Marsh

Burn Manager: Harold Swiger #2007019

Equipment	Location	Crew Size
2 - Pump on Gator	Fireline around perimeter	4 crew members
4 - Backpack pumps	Fireline around perimeter	4 crew members
1 - Tank and pump on pick-up	Site Fire break on east flank	1 crew member
Hand tools	Fireline around perimeter	3 crew members
2 - Drip torch	Within burn boundary	2 crew members

**Site Preparation/Fire Breaks:** Mow a firebreak along deer fence and pines on the west with bush-hog. Firebreak will be approximately 15 feet wide and will be cleared of loose vegetation following mowing. A 20 foot area will be mowed around the solar panel and associated gate at gravel road. Firebreak will be cleared of loose vegetation. Area around gate will be wet down prior to igniting vegetation adjacent to it and solar panel. A 15 feet firebreak will be bush-hogged along the eastern edge of the burn area from gravel road to the South Access Road on the north and from the gravel road to the pond on the south. Loose vegetation will be cleared from the firebreak prior to igniting fire. A 15 feet fire break will mowed on the south up to the road's edge.

**Site Restoration Work:** Evaluate the completeness and effectiveness of burn. Apply herbicide spot spray to any invasive plants (i.e., thistle, teasel, reed canary grass, etc.) that may resprout after burn. Apply a thick covering layer of hay over the portions of the burn area that had reed canary grass patches. Hay will need to be thick enough to shade out and prevent the re-emergence of canary reed grass.

Stakeholders/Neighbors to Notify	Contact Number	Date	Time
Dorothy Nieman	On file		
Dave Nieman	On file		
Sandy Butterfield	On file		
Bill Knollman	On file		
Russ Beckner	On file		
Carl Summe	On file		
Ross Township Trustees	On file		
Crosby Township Trustees	On file		
Morgan Township Trustees	On file		
Northwest Schools Superintendent	On file		
Morgan-Ross Schools Superintendent	On file		
Tom Schneider, OEPA	On file		

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: Canary Marsh

Burn Manager: Harold Swiger #2007019

Emergency Contacts	Phone	Cell
Medical/Fire/Law Enforcement	<b>911</b>	
Stoller Site Manager	(513) 648-5294	(513) 910-6107
LM Site Manager	(513) 648-3148	(513) 910-4009

Contact List	Contact Number	Pre-Fire Date/Time	Post-Fire Date/Time
Hamilton County Sheriff's Office	(513) 825-2280	/	/
Butler County Sheriff's Office	(513) 785-1300	/	/
Crosby Township Fire Department	(513) 738-1831	/	/
Ross Fire Department	(513) 863-3410	/	/
Ross Police Department	(513) 863-2337	/	/
Ohio State Highway Patrol	(513) 863-4606	/	/

**Site Mop-Up:** Mop-up will consist of passing through fire area after fire is out and wetting down all smoldering and smoking debris. Monitor area around electronic gate and solar panel to ensure fire does not encroach inside protected area.

**Final Fireline Condition:** \_\_\_\_\_

**Burn Manager:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Time:** \_\_\_\_\_

### Personal Information

Full Name: **Swiger** **Harold** **E.**  
Last First M.I.

Address: **S. M. Stoller 10995 Hamilton – Cleves Hwy.**  
Street Address Apartment/Unit #

**Harrison** **Ohio** **45030**  
City State ZIP Code

Home Phone: **( 513 ) 648-7528** Alternate Phone:                     

### Open Burning Site Information

Burn Site Address: **7400 Willey Road**  
Street Address

**Crosby Township** **Hamilton**  
City or Township County

- 1) Provide a sketch of the burn location below or on an attached sheet. Include the location of the site and burn location within the site, nearest road intersection(s) and distance to/placement of nearest off-site structures including a map showing distances to residences, populated areas, roadways, air fields, and other pertinent landmarks.

**Map containing burn location and five mile radius is attached.**

- 2) Describe the purpose for the burn.

Choose a category:

- Land Clearing
- Recognized horticultural, silvicultural, range management or wildlife management practices
- Fires and/or pyrotechnics as part of film-making or video production
- Prevention or control of disease or pests
- Disposal of ignitable or explosive materials
- Instruction for methods of fire fighting or for research in the control of fire (complete item 4 below)

Provide a brief written description of your proposed burn:

**Irwin Prairie North burn is located on the Fernald Preserve adjacent to Paddys Run Road. Across the Road from the proposed burns is the Shaefer Box and Pallet factory and Shamrock Enterprises office. A trucking company has a couple of buildings about 100 yards down the road. A buffer strip will be left between Paddy's Run Road and the fire. A buffer area will be left between the proposed burn and Paddys Run Creek to the east. The prairie is a developing tall grass prairie with native grasses and wildflowers. The prairie has some Canada thistle, Johnson grass, and poison hemlock present. The purpose of burn is to improve prairie composition and growth and to control undesirable and invasive species of plants.**

## Open Burning Request Form

- 3) Describe the material to be burned and the quantity of the material to be burned for any category identified in 2 above except for "Instruction for methods of fire fighting or for research in the control of fire" [see the following web link for what can be burned: <http://www.epa.state.oh.us/dapc/regs/3745-19/3745-19-03.pdf>]

**Irwin Prairie North Fire – Approximately 5.84 acres**

**Fuel types: Fuel Model 1 – grass < 3 ft. in height – 05% of unit**

**Fuel Model 3 – grass > 3 ft. in height – 95% of unit**

**Fuel loads are medium to heavy.**

- 4) To be completed if "Instruction for methods of fire fighting or for research in the control of fire" is chosen in 2, above. If a structure is to be burned for fire training purposes, call the asbestos program coordinator to obtain a copy of the NESHAPS regulations (614-644-2270).

- a. Asphalt shingles should be removed prior to burning. Have they been removed?  
 Yes  No  Not Applicable
- b. Vinyl siding should be removed prior to burning. Has all vinyl siding been removed?  
 Yes  No  Not Applicable
- c. Asbestos containing material may need to be removed <sup>1</sup>prior to burning. Friable asbestos must be removed by a licensed asbestos abatement contractor. Have all asbestos containing materials been removed?  
 Yes  No  Not Applicable

- 5) Did the material to be burned originate from the same site where it is being burned?  
 Yes  No

- 6) Is the burning site located within a restricted area? A restricted area is defined as the area within the boundaries of any municipal corporation (plus a 1,000 foot zone around cities having a population of 1,000 - 10,000 and a one (1) mile zone around cities greater than 10,000).  
 Yes  No

- 7) Provide the date(s) and Time(s) when the burning is anticipated to take place:

Begin	
Date	Time

End	
Date	Time

Or,

For recognized horticultural, silvicultural, range management or wildlife management practices, please identify the range of dates and times the burn is expected to occur:

From: **February 17, 2014** To: **May 23, 2014**

From: **10:00 A.M.** To: **6:00 P.M. (same day)**

<sup>1</sup> All demolition/renovation must be reported. If ACM is present, notification or approval for removal must be completed. See instructions for more details.

# Open Burning Request Form

8) What methods or actions will be taken to reduce the emission of air contaminants?

**The affects of smoke to the local area and the ambient air quality will be minimized by burning only on days with upward air movement. Prescribed burns will be limited to days when the air currents would lift the smoke to altitudes above 1700 feet. Weather thresholds would also include direction of wind. If the smoke could be blown towards sensitive areas without sufficient atmospheric lift, then the burn would be postponed.**  
**Current and forecast meteorological data will be utilized to identify wind and atmospheric conditions for the area.**

## Fire Department Section

1) Local ordinances may prohibit burning, or require additional restrictions. Please identify the local fire department where the burn will take place. Please obtain signature of the Fire Chief (note, this is not required but failure to notify may subject you to violation of local ordinances).

Fire Department Section			
Fire Chief (printed name):	Bruce Downard		
Name of Fire Department:	Crosby Township Fire Department		
Address:	9139 Baughman Road	Crosby Township	45030
	<i>Street</i>	<i>City/Township</i>	<i>Zip Code</i>
Phone Number	( 513 ) 738-1831		
Signature of Fire Chief:			
Comments from Fire Chief (if any):			

## Submission Certification

I, certify that the information set forth above is true and complete.

I realize that the Ohio EPA, after this request, may determine that the open burning is not allowed under its regulations, or may impose certain requirements as part of approval of my request, and shall notify me to that effect once they make such a determination.

In addition, I realize that no open burning shall be conducted in an area where an air pollution alert, warning, or emergency is in effect and that submission of this notification of intent does not exempt me from compliance with any other state or local regulation or ordinance.

  
 \_\_\_\_\_  
 Signature

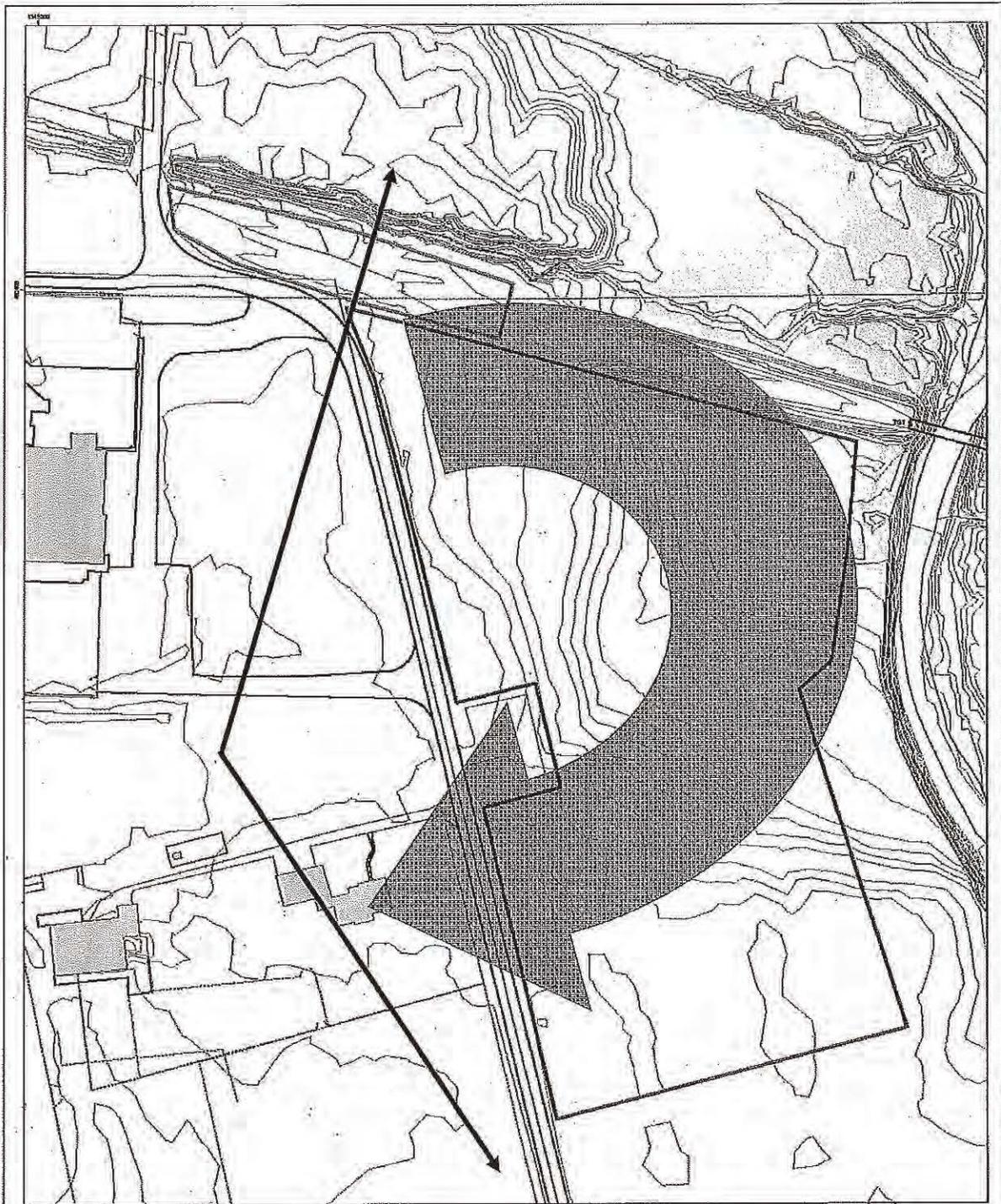
2-17-2014  
 \_\_\_\_\_  
 Date

## Open Burning Request Form Instructions

### Additional important information to note:

- The Ohio Department of Natural Resources has statutory authority for reviewing requests to conduct prescribed burns (e.g., burning off fields to promote prairie grasses). In addition, concerned with the potential for brush and forest fires, the ODNR Division of Forestry prohibits outdoor burning in rural areas between the hours of 6 a.m. and 6 p.m. during the typically dry months of March, April, May, October and November. So, regardless of if Ohio EPA grants permission to open burn from an environmental perspective, if you live in an unincorporated area, ODNR may deny permission to burn during these times/months due to fire safety concerns. For more information, see the following ODNR resources:  
<http://www.dnr.state.oh.us/Portals/18/fire/pdf/OhioFireLaw.pdf>  
<http://www.dnr.state.oh.us/forestry/Home/fire/wildfire/tabid/5146/Default.aspx>
- Some local jurisdictions may have additional restrictions on burning materials or burning at times that are otherwise approvable under Ohio EPA's open burning rules. The following links can be used to access Ohio township and city/village websites:  
Townships via the Ohio Township Association  
<http://cpmra.muohio.edu/otaohio/Websites.htm>  
Cities & Villages via the Ohio Municipal League  
<http://www.omloho.org/OMLMunicipalData/omlmunidata.htm>

# Irwin Prairie North Prescribed Burn Acceptable Wind Direction



----- Butler-Hamilton County Line	----- Property Boundary	--- fer_Intermittent_Drain_line	U.S. DEPARTMENT OF ENERGY 10000 JOHN C. CALDWELL	Work performed by S.M. Stoller Corporation 10000 JOHN C. CALDWELL
[Hatched Box] Burn Areas	--- Paddys Run	s Gate	Fernald Preserve Irwin Prairie North Prescribed Burn Area	
[White Box] Safety Zone	--- Fence	--- fer_1ft_Contour_112806		
[Grey Box] Building	--- Road-paved	o Treeline	SCALE PREPARED: 1/14/2014	BY: [Signature]
[Dotted Box] Fernald Preserve Boundary	--- Road-gravel		FOR: Burn 2014, Irwin Prairie, North	

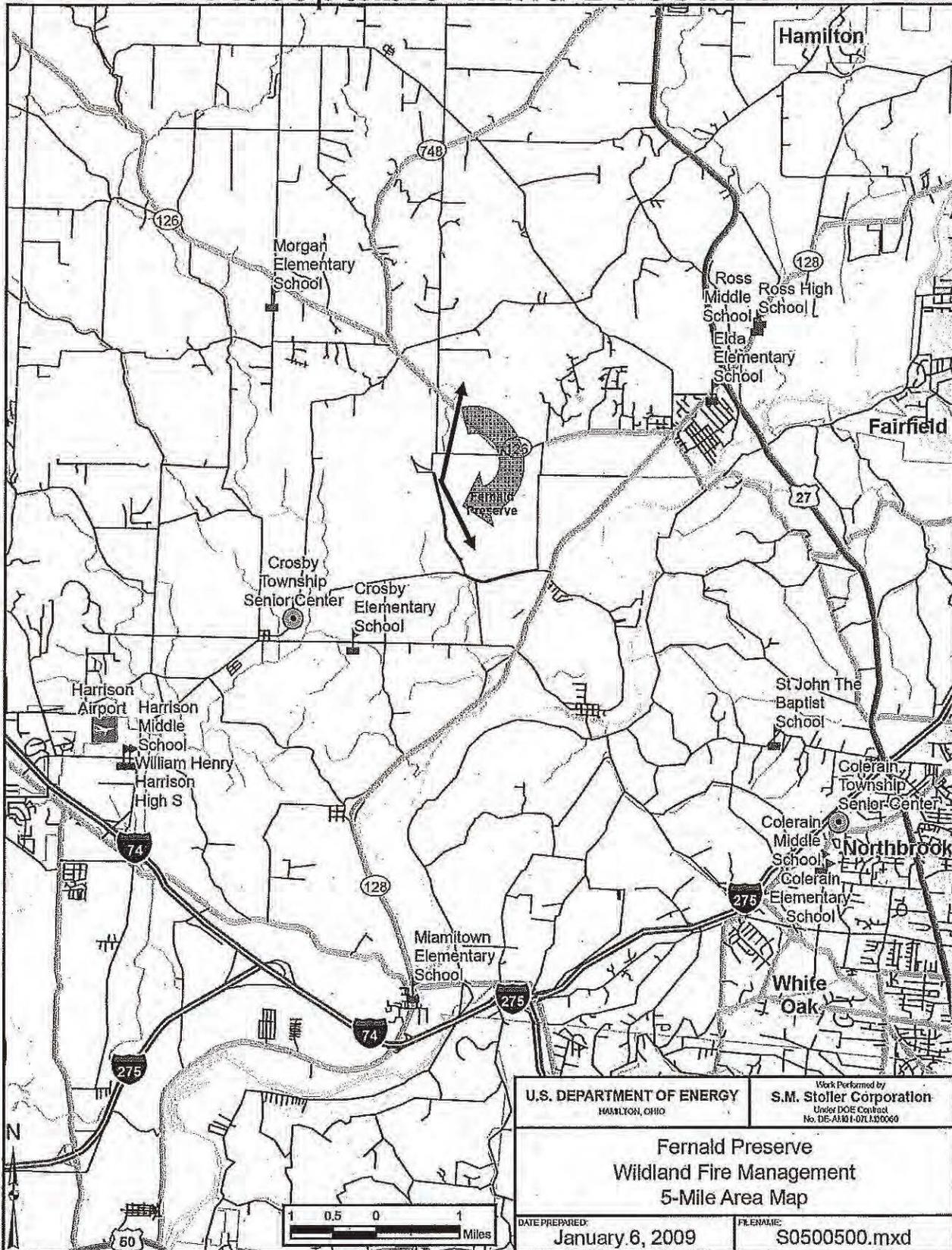
→ Acceptable Wind Direction

# Irwin Prairie North Prescribed Burn

## Acceptable Wind Direction



# Irwin Prairie North Prescribed Burn Acceptable Wind Direction



U.S. DEPARTMENT OF ENERGY  
HAMILTON, OHIO

Work Performed by  
**S.M. Stoller Corporation**  
Under DOE Contract  
No. DE-AC01-07LX0060

Fernald Preserve  
Widland Fire Management  
5-Mile Area Map

DATE PREPARED:  
January 6, 2009

FILENAME:  
S0500500.mxd



U.S. Department of Energy Office of Legacy Management

**Fernald Preserve Prescribed Fire Burn Plan**

Burn Name: Irwin Prairie North Burn Manager: Harold Swiger #2007019 Date of Fire: \_\_\_\_\_

**Burn Location:** Fernald Preserve's Irwin Prairie. Burn is located on the western edge of the Fernald Preserve. It is bordered on the west by Paddys Run Road, on the east by Paddys Run Creek and a deer fence, and by the old Fernald railroad bed on the north. The Irwin Prairie runs almost to the Hamilton/Butler County line on the north (See attached map). A fire-break will be constructed to delineate the southern edge of the burn.

**County:**  Butler (Ross Township)  Hamilton (Crosby Township) **State:** Ohio

**Burn Size:** Approximately 5.84 acres

**Site Description:** This tract is an upland tall-grass prairie. The land gently slopes down from the road on the west to the east and levels out prior to reaching Paddys Run Creek. Trees along Paddys Run Creek shade the prairie in the morning but full sunlight is available the rest of the day. The burn area begins at the toe of a railroad bed on the north and gently slopes up at the south edge. There is a gate at Paddys Run Road that opens to an access trail that cuts through the center of the burn area to the NW corner of a deer fence enclosure. The trail then turns south along the western edge of the enclosure which is the eastern edge of the burn area.

<b>Fuel Types:</b>	Fuel Model 1 – grass less than 3 feet in height	05	% of Unit Area
	Fuel Model 3 – grass greater than 3 feet in height	95	% of Unit Area
	Fuel Model 9 – woody debris		% of Unit Area

**Purpose of Burn:** Promote growth and health of native prairie grasses and forbs

- Burn Objectives:**
- Reduce thatch
  - Reduce and control undesirable and invasive species
  - Promote early growth of desirable grass and forb species

Permits	Submittal Date	Receipt Date
Ohio Div. of Forestry Request for Waiver of ORC 1503.18		
Ohio EPA Open Burn Notification		

Smoke Sensitive Areas	Direction	Distance	Down Wind?
Crosby Elementary School	SW of site	~2 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Crosby Senior Center	SW of site	~2.2 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Elda Elementary School	NE of site	~3.3 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Ross Middle/High Schools	NE of site	~3.5 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Morgan Elementary School	NW of site	~2.7 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
St. John the Baptist School	SE of site	~4.9 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Harrison Middle School	SW of site	~4.6 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
W H Harrison High School	SW of site	~4.7 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
CSX Railroad Line	West of Site	< 1/4-mile	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Cincinnati West Airport	SW of site	~4.6 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
State Route 126	North of Site	< 3/4-mile	Yes <input type="checkbox"/> No <input type="checkbox"/>
State Route 128	East of Site	~1.5 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
US Hwy. 27	North of Site	~3.56 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/>

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: Irwin Prairie North

Burn Manager: Harold Swiger / # 2007019

Wind Factors		Acceptable Range	Predicted	Actual
Surface Winds	Speed	2 to 12 mph		
	Direction	SSW clockwise to NNW		
Transport Winds	Speed	≥ 5 mph		
Minimum mixing height		1700 feet to 6500 feet		
Haines index		2 to 4		

Weather Factors		Acceptable Range	Predicted	Actual
Minimum relative humidity		20 % to 55%		
Maximum temperature		40 <sup>o</sup> F to 75 <sup>o</sup> F		
Fine fuel moisture		6 % to 20 %		
Soil moisture		>28% / >22%		
Soil Type		Clay / clay loam		

Fire Behavior		Acceptable Range	Actual
Type fire		Strip-heading or ring fire	
Head-fire flame length		6.5 to 22.5 ft.	
Head-fire rate of spread		28 to 361 ch/h	
Date of Burn		Feb. 17, 2014 to May 23, 2014	
Time of Burn		10:00 hrs to 18:00 hrs	

**Line of Responsibility**

Name of Crew Member	Responsibility	Report
Henry Becker		
Stephanie Bien		
Joey Bowles		
Ken Broberg		
Brian Dietz		
Cathy Glassmeyer		
Bill Gutzwiller		
John Homer		
Lisa McHenry		
Katie Payne		
Tim Sparks		
Scott Strickland		
Karen Voisard		
Jon Walters		
Phil Williams		
Chuck White		

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: Irwin Prairie North

Burn Manager: Harold Swiger / # 2007019

Equipment	Location	Crew Size
2 - Pumps on Gators	Fire perimeter	4 - 2 crews of 2 people
1 - Pump on truck	Fire perimeter at well house	1 - as needed
9 - Hand Tools	Fire perimeter and mop-up	9 - on Gators/as needed
7 - Backpack Pumps	Fire perimeter and mop-up	7 - as needed
3 - Drip torches	Fire perimeter and interior	2 - 1 each burn direction

**Site Preparation/Fire Breaks:** Mow a fire-break adjacent to Paddy's Run Road to a distance of 40 ft. from edge of road using tractor with rotary cutting blade. Additional firebreaks will be cut along the remaining perimeter of burn using a tractor with rotary cutting blade to a width of approximately 30 ft. Ensure cut grass is not bunched or piled within firebreak; rake or blow grasses from firebreak. A 50 ft. buffer will be left between Paddys Run Creek and fire-break on east side of the proposed burn area. A back-up fire break will be mowed about 50 feet to the south of first fire-break on the south flank; also, a back-up fire-break will be cut to the north of the railroad grade on the north flank. Firebreaks will serve as Escape Routes to west and north to Safety Zone in old railroad bed (see map). Safety Zone will be mowed and cleared of cut grasses.

**Site Restoration Work:** Area will be monitored following burn and any areas damaged by the burn will be repaired and seeded.

Stakeholders/Neighbors to Notify	Contact Number	Date	Time
Dorothy Nieman	On file		
Dave Nieman	On file		
Sandy Butterfield	On file		
Bill Knollman	On file		
Russ Beckner	On file		
Carl Summe	On file		
Ross Township Trustees	On file		
Crosby Township Trustees	On file		
Morgan Township Trustees	On file		
Northwest Schools Superintendent	On file		
Morgan-Ross Schools Superintendent	On file		
Tom Schneider, OEPA	On file		
Lisa Crawford	On file		

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: Irwin Prairie North

Burn Manager: Harold Swiger / # 2007019

Emergency Contacts	Phone	Cell
Medical/Fire/Law Enforcement	<b>911</b>	
Stoller Site Manager	(513) 648-3894	(513) 910-6107
LM Site Manager	(513) 648-3148	(513) 910-4009

Contact List	Contact Number	Pre-Fire Date/Time	Post-Fire Date/Time
Hamilton County Sheriff's Office	(513) 825-2280		
Butler County Sheriff's Office	(513) 785-1300		
Grosby Township Fire Department	(513) 738-1831		
Ross Fire Department	(513) 863-3410		
Ross Police Department	(513) 863-2337		
Ohio State Highway Patrol	(513) 863-4606		

**Site Mop-Up:** Mop-up will consist of passing through fire area after fire is out and wetting down all smoldering and smoking debris. Embers will be cut from large debris and soaked.

**Final Fireline Condition:** \_\_\_\_\_

**Burn Manager:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Time:** \_\_\_\_\_



Recommended Open Burning Notification Form (intended for required notifications – form itself is not required as long as the information identified herein is included in your notification)

**Personal Information**

Full Name: **Swiger** **Harold** **E**  
*Last First M.I.*

Address: **S.M. Stoller Corp., 10995 Hamilton-Cleves Hwy.**  
*Street Address Apartment/Unit #*

**Harrison** **Ohio** **45030**  
*City State ZIP Code*

Home Phone: **513-648-7528** Alternate Phone: [REDACTED]

**Open Burning Site Information**

Burn Site Address: **7400 Willey Road**  
*Street Address*

**Ross Township** **Butler**  
*City or Township County*

- 1) Provide a sketch of the burn location below or on an attached sheet. Include the location of the site and burn location within the site, nearest road intersection(s) and distance to/placement of nearest off-site structures including a map showing distances to residences, populated areas, roadways, air fields, and other pertinent landmarks.

**Maps containing burn location and five mile radius are attached.**

- 2) Describe the purpose for the burn.  
 Choose a category:
- Prevention or control of disease or pests, with written or verbal verification to the Ohio EPA from the local health department, cooperative extension service, Ohio department of agriculture, or U.S. department of agriculture, that open burning is the only appropriate disposal method.
  - Recognized horticultural, silvicultural, range management or wildlife management practices
  - Bonfires or campfires used for ceremonial purposes
  - Disposal of agricultural waste generated on the premises

Provide a brief written description of your proposed burn:

Morgan's corner Savanna burn area is located on the Fernald Preserve adjacent to Morgan-Ross Road. The burn is located just north of the Butler/Hamilton County line. This is the NW corner of the site. The area is a developing tall grass savanna with pasture grasses and native grasses surrounding scattered burr oaks and swamp white oaks. The area is slow to drain and retains water for an extended time. There are a number of cottonwood trees that border the area and some bush honeysuckle within the burn boundary. The purpose of the burn is to remove or control undesirable grasses and woody species. A buffer area will be left between the proposed burn and Morgan-Ross Road; also between Paddy's Run Creek and the burn.

**Recommended Open Burning Notification Form** (intended for required notifications – form itself is not required as long as the information identified herein is included in your notification)

3) Describe the material to be burned and the quantity of the material to be burned for any category identified in 2 above

Morgan's Corner Savanna Burn is approximately 4.1 acres in size.

Fuel types include:

- Fuel Model 1 – grass <3 feet in height	33	% of Unit Area
- Fuel Model 3 – grass >3 feet in height	63	% of Unit Area
- Fuel Model 9 – woody debris	4	% of Unit Area

Fuel loads are moderate

4) Did the material to be burned originate from the same site where it is being burned?  
 Yes  No

5) Provide the date(s) and Time(s) when the burning is anticipated to take place:

Begin		End	
Date	Time	Date	Time

Or,

For recognized horticultural, silvicultural, range management or wildlife management practices, please identify the range of dates and times the burn is expected to occur:

From: February 17, 2014 To: May 23, 2014

6) What methods or actions will be taken to reduce the emission of air contaminants?

Current and forecast meteorological data will be utilized to identify wind and atmospheric Conditions for the area. The effects of smoke to the local area and the ambient air quality will be minimized by burning only on days with upward air movement. Prescribed burn will be limited to days when the air currents would lift the smoke to altitudes above 1700 feet. Weather thresholds would also include direction of wind. If smoke could be blown towards Sensitive areas without sufficient lift, then the burn would be postponed.

A copy of prescribed fire burn plan is attached with five mile sensitive area map.

**Recommended Open Burning Notification Form** (intended for required notifications – form itself is not required as long as the information identified herein is included in your notification)

1) Local ordinances may prohibit burning, or require additional restrictions. Please identify the local fire department where the burn will take place. Please obtain signature of the Fire Chief (note, this is not required but failure to notify may subject you to violation of local ordinances).

Fire Department Section			
Fire Chief (printed name):	Bruce Downard		
Name of Fire Department:	Crosby Township Fire Department		
Address:	9139 Baughman Road	Crosby Township	45030
	<i>Street</i>	<i>City/Township</i>	<i>Zip Code</i>
Phone Number	(513) 738-1831		

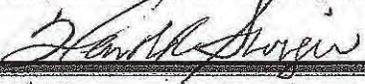
Fire Department Section (continued)	
Signature of Fire Chief:	
Comments from Fire Chief (if any):	

**Submission Certification**

I, certify that the information set forth above is true and complete.

I realize that the Ohio EPA, after this notification, may determine that the open burning is not allowed under its regulations, or may impose certain requirements as part of review of my request, and shall notify me to that effect once they make such a determination. I hereby certify that the burn presented in the notification above will not occur less than ten (10) working days before the fire is to be set. I recognize that Saturday, Sunday, and legal holidays are not considered a working day.

In addition, I realize that no open burning shall be conducted in an area where an air pollution alert, warning, or emergency is in effect and that submission of this notification of intent does not exempt me from compliance with any other state or local regulation or ordinance.

  
Signature

2-17-2014  
Date

### Submission Certification

Sign and date the notification. Note the signature criteria prior to signing the notification. Ohio is substantially in attainment with the national ambient air quality standards. As a result, air pollution emergencies and warnings very are rare in Ohio. The following link provides the technical criteria for air pollution emergencies and warnings: <http://www.epa.ohio.gov/portals/27/regs/3745-25/3745-25-02.pdf>  
In addition, it is also important to check your local forecast for weather conditions prior to burning to make sure conditions are such that they will minimize air pollution impacts.

### Additional important information to note:

- The Ohio Department of Natural Resources has statutory authority for reviewing requests to conduct prescribed burns (e.g., burning off fields to promote prairie grasses). In addition, concerned with the potential for brush and forest fires, the ODNR Division of Forestry prohibits outdoor burning in rural areas between the hours of 6 a.m. and 6 p.m. during the typically dry months of March, April, May, October and November. So, regardless of if Ohio EPA grants permission to open burn from an environmental perspective, if you live in an unincorporated area, ODNR may deny permission to burn during these times/months due to fire safety concerns. For more information, see the following ODNR resources:

<http://www.dnr.state.oh.us/Portals/18/fire/pdf/OhioFireLaw.pdf>

<http://www.dnr.state.oh.us/forestry/Home/fire/wildfire/tabid/5146/Default.aspx>

- Some local jurisdictions may have additional restrictions on burning materials or burning at times that are otherwise approvable under Ohio EPA's open burning rules. The following links can be used to access Ohio township and city/village websites:

Townships via the Ohio Township Association

<http://cpmra.muohio.edu/otaohio/Websites.htm>

Cities & Villages via the Ohio Municipal League

<http://www.omloho.org/OMLMunicipalData/omlmunidata.htm>

# Morgan's Corner Savanna Prescribed Burn Acceptable Wind Direction

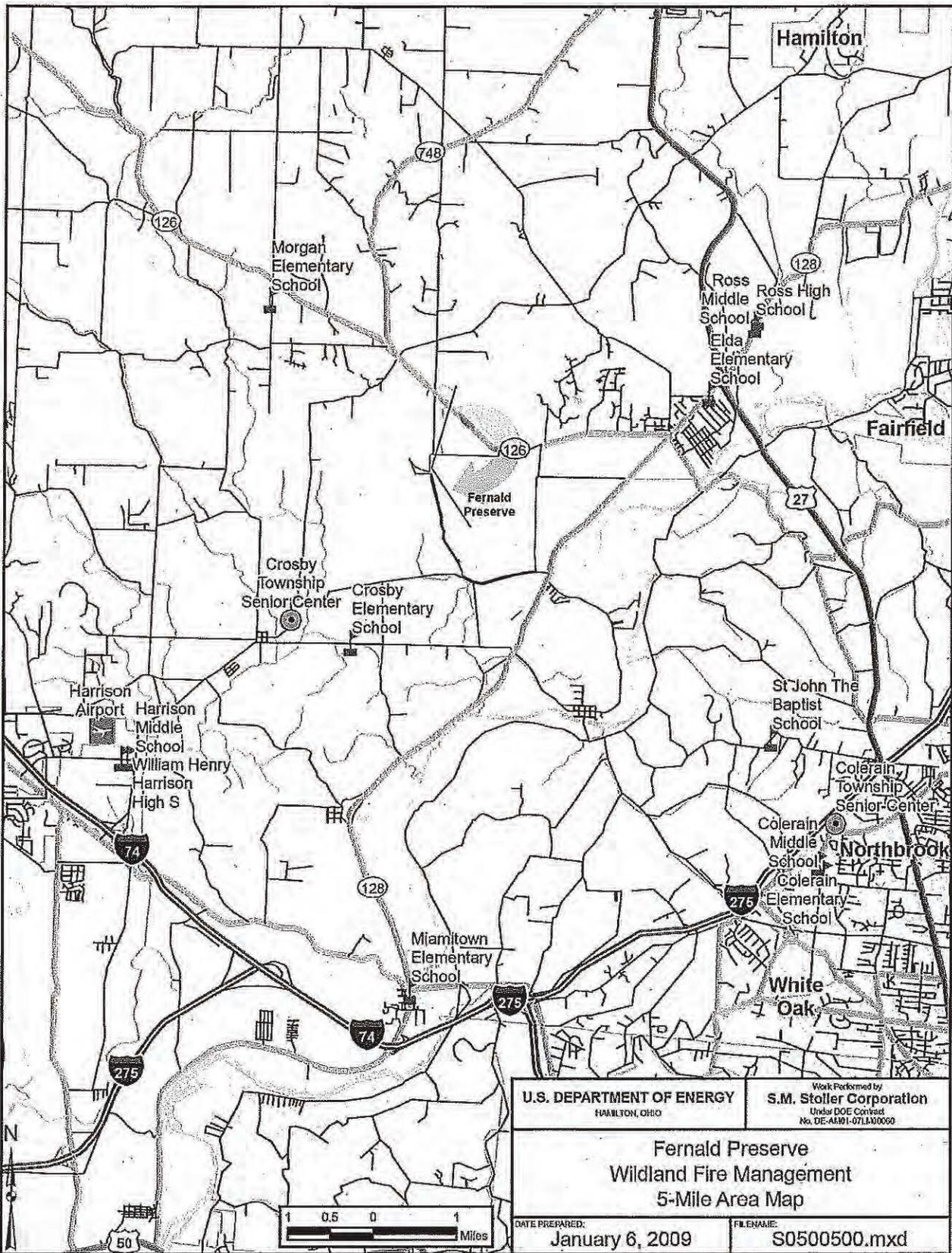


# Morgan's Corner Savanna Prescribed Burn Acceptable Wind Direction



<ul style="list-style-type: none"> <li>— Pathway</li> <li>— Butler-Hamilton County Line</li> <li>▨ Safety Area</li> <li>▨ Burn Area</li> <li>□ Fernald Preserve Boundary</li> </ul>	<ul style="list-style-type: none"> <li>— Paddy's Run</li> <li>— Fence</li> <li>— Road-paved</li> <li>— Road-gravel</li> <li>— Intermittent Stream</li> </ul>	<ul style="list-style-type: none"> <li>□ Open Water</li> <li>□ Wetland</li> <li>— Intermittent Drain line</li> <li>— Trail</li> </ul>	<p>1:60,000 Scale From: Ohio State</p>	<p>U.S. DEPARTMENT OF ENERGY BES&amp;C/276, 0140</p>	<p>Map Produced by S.M. Stokes Corporation 1400 12th Avenue Cincinnati, OH 45202-1200</p>
				<p>DATE PREPARED: January 14, 2014</p>	<p>FILE NAME: Fernald_Prescribed_Burn_Areas</p>

# Morgan's Corner Savanna Prescribed Burn Acceptable Wind Direction



<b>U.S. DEPARTMENT OF ENERGY</b> <small>HAMILTON, OHIO</small>	<small>Work Performed by</small> <b>S.M. Stoller Corporation</b> <small>Under DOE Contract          No. DE-AMB1-07LX0060</small>
<b>Fernald Preserve          Wildland Fire Management          5-Mile Area Map</b>	
<small>DATE PREPARED:</small> <b>January 6, 2009</b>	<small>FILENAME:</small> <b>S0500500.mxd</b>



## Fernald Preserve Prescribed Fire Burn Plan

**Burn Name:** Morgan's Corner Savanna    **Burn Manager:** Harold Swiger    **Date of Fire:** \_\_\_\_\_

**Burn Location:** Fernald Preserve is located at 7400 Willey Road in Crosby Township, Ohio. The burn is on the northwest corner of the Fernald Preserve on the east side of Morgan-Ross Road, 100 yards north of the Hamilton / Butler County line. The burn area is approximately 200 feet south of the Fernald Preserve north boundary line. (see attached map)

**County:**  Butler (Ross Township)     Hamilton (Crosby Township)    **State:** Ohio

**Burn Size:** Approximately 4.1 acres or 1.64 hectares

**Site Description:** This tract is a combination of wet and mesic savanna surrounded by planted woodlot. The area has a shelf along Morgan-Ross Road that slopes eastward down to a slowly draining flat. There is one low knob in the center of the area. The ground gently slopes to the south to a drainage ditch flowing to the east. The east boundary is a tree line, vernal pools, and a drainage swale. The north boundary is a gravel parking lot and drive. The vegetation consist of Burr Oak and Swamp White Oak saplings in a field of mixed pasture grasses among native grasses and forbs. There are a few large Cottonwood trees adjacent to the parking lot. The shelf on the west has a number of honeysuckle growing on top. The land drains slowly and has standing water for a number of days following a rain event.

<b>Fuel Types:</b>	<u>Fuel Model 1 – grass less than 3 feet in height</u>	<u>33</u>	<u>% of Unit Area</u>
	<u>Fuel Model 3 – grass greater than 3 feet in height</u>	<u>63</u>	<u>% of Unit Area</u>
	<u>Fuel Model 9 – woody debris</u>	<u>4</u>	<u>% of Unit Area</u>
			<u>% of Unit Area</u>

**Purpose of Burn:** Increase amount of native grasses and forbs in the area.

**Burn Objectives:** Remove or reduce undesirable grasses and woody vegetation

- Promote growth of desirable grass and forb species
- Promote health of stand by reducing thatch

Permits	Submittal Date	Receipt Date
Ohio Div. of Forestry Request for Waiver of ORC 1503.18		
Ohio EPA Open Burn Notification		

Smoke Sensitive Areas	Direction	Distance	Down Wind?
Morgan Elementary School	Northwest of site	~2.67 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Elda Elementary School		~3.35 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Ross Middle/High Schools		~4.11 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Crosby Elementary School		~2.27 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Crosby Township Senior Center		~2.44 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Harrison Middle/High Schools		~4.97 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
US Hwy. 27		~3.52 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
State Route 126		~1.73 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
State Route 128		~0.56 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
CSX Railroad		~0.18 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: Morgan's Corner Savanna

Burn Manager: Harold Swiger #2007019

Wind Factors		Acceptable Range	Predicted	Actual
Surface Winds	Speed	4 to 8 mph		
	Direction	SW clockwise to NW		
Transport Winds	Speed	>5 mph		
Minimum mixing height		1700 to 6500 feet		
Haines index		3 to 5		

Weather Factors		Acceptable Range	Predicted	Actual
Minimum relative humidity		30% to 55%		
Maximum temperature		45° F to 75° F		
Fine fuel moisture		6% to 20%		
Soil Moisture		>28% / >22%		
Soil Type		Clay / clay loam		

Fire Behavior		Acceptable Range	Actual
Type fire		Strip heading/ring fire	
Head-fire flame length		9.5 ft. to 17.7 ft.	
Head-fire rate of spread		64 ch/h to 214 ch/h	
Date of Burn		Feb. 17 to May 23, 2014	
Time of Burn		1200 hrs. to 1700 hrs.	

**Line of Responsibility**

Name of Crew Member	Responsibility	Report
Henry Becker		
Stephanie Bien		
Joey Bowles		
Ken Broberg		
Brian Dietz		
Cathy Glassmeyer		
Roger Grant		
Bill Gutzwiller		
John Homer		
Lisa McHenry		
Larry Oeffner		
Katie Payne		
Tim Sparks		
Scott Strickland		
Karen Voisard		
Jon Walters		
Phil Williams		
Chuck White		

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: Morgan's Corner Savanna

Burn Manager: Harold Swiger #2007019

Equipment	Location	Crew Size
2 - Pump on Gator	Fireline around perimeter	4 crew members
4 - Backpack pumps	Fireline around perimeter	4 crew members
1 - Tank and pump on pick-up	Safety zone in gravel	1 crew member
Hand tools	Fireline around perimeter	3 crew members
2 - Drip torch	Within burn boundary	2 crew members

**Site Preparation/Fire Breaks:** A 15 foot firebreak will be mowed using a bush-hog around the perimeter of the burn area connecting to the west edge and east edge of the gravel lot. On the south edge of the burn area, a 10 foot buffer should be left between the firebreak and the stream bank in the drainage. Ensure cut grass is not bunched or piled within firebreak.

Cut grasses down around each burr oak and swamp white oak in the burn area. Rake grasses away from the base of each tree. Do the same around wildlife boxes within burn area. Water tree circles and wildlife boxes prior to burn if needed.

Prescribed burn signs will be set along Morgan-Ross Road in both directions prior to beginning burn.

**Site Restoration Work:** Monitor area in spring growing season for native grasses and forbs content or any sprouting of undesirables.

Spray any honeysuckle that may resprout with appropriate glyphosate mixture.

Stakeholders/Neighbors to Notify	Contact Number	Date	Time
Dorothy Nieman	Number on file		
Dave Nieman	Number on file		
Sandy Butterfield	Number on file		
Bill Knollman	Number on file		
Russ Beckner	Number on file		
Carl Summe	Number on file		
Ross Township Trustees	Number on file		
Crosby Township Trustees	Number on file		
Morgan Township Trustees	Number on file		
Northwest Schools Superintendent	Number on file		
Morgan-Ross Schools Superintendent	Number on file		
Tom Schneider, OEPA	Number on file		

U.S. Department of Energy Office of Legacy Management

Fernald Preserve Prescribed Fire Burn Plan (continued)

Burn Name: Morgan's Corner Savanna

Burn Manager: Harold Swiger #2007019

Emergency Contacts	Phone	Cell
Medical/Fire/Law Enforcement	911	
Stoller Site Manager	(513) 648-5294	(513) 910-6107
LM Site Manager	(513) 648-3148	(513) 910-4009

Contact List	Contact Number	Pre-Fire Date/Time	Post-Fire Date/Time
Hamilton County Sheriff's Office	(513) 825-2280	/	/
Butler County Sheriff's Office	(513) 785-1300	/	/
Crosby Township Fire Department	(513) 738-1831	/	/
Ross Fire Department	(513) 863-3410	/	/
Ross Police Department	(513) 863-2337	/	/
Ohio State Highway Patrol	(513) 863-4606	/	/

Site Mop-Up: Mop-up will consist of passing through burn area after fire is out and wetting down all smoldering and smoking debris. Embers will be cut from larger debris and soaked with water.

Final Fireline Condition:

Burn Manager:

Date:

Time:

## Personal Information

Full Name: **Swiger** **Harold** **E.**  
Last First M.I.

Address: **10995 Hamilton-Cleves Road**  
Street Address Apartment/Unit #

**Harrison** **Ohio** **45030**  
City State ZIP Code

Home Phone: **(513) 648-7528** Alternate Phone:

## Open Burning Site Information

Burn Site Address: **Fernald Preserve, 7400 Willey Road**  
Street Address

**Crosby Township** **Hamilton**  
City or Township County

1) Provide a sketch of the burn location below or on an attached sheet. Include the location of the site and burn location within the site, nearest road intersection(s) and distance to/placement of nearest off-site structures including a map showing distances to residences, populated areas, roadways, air fields, and other pertinent landmarks.

Maps containing burn location and identifying the five mile radius are attached.

2) Describe the purpose for the burn.

Choose a category:

- Land Clearing
- Recognized horticultural, silvicultural, range management or wildlife management practices
- Fires and/or pyrotechnics as part of film-making or video production
- Prevention or control of disease or pests
- Disposal of ignitable or explosive materials
- Instruction for methods of fire fighting or for research in the control of fire (complete item 4 below)

Provide a brief written description of your proposed burn:

**Skillet Prairie Burn** is located in the Center of the Fernald Preserve, NE of site's visitor center. The prairie consists of tall grass prairie with scattered shrubs on a rolling topography. There are two ponds and seven vernal wetlands within the boundary of the proposed burn. Ponds and wetlands are small in size and do not include a lot of vegetative growth. The purpose of burn is to improve grass composition and maintain plant health and growth while controlling undesirable and invasive species. Invasive species include Canada and bull thistles.

## Open Burning Request Form

- 3) Describe the material to be burned and the quantity of the material to be burned for any category identified in 2 above except for "Instruction for methods of fire fighting or for research in the control of fire" [see the following web link for what can be burned: <http://epa.ohio.gov/portals/27/regs/3745-19/3745-19-03.pdf>]

Skillet Prairie Burn – Approximately 22.5 acres

Fuel types: Fuel Model 1 – grass <3 ft. in height – 9% of unit

Fuel Model 3 – grass > 3 ft. in height – 90% of unit

Fuel Model 9 – woody debris – 1% of unit

Fuel loads in the area are moderate with some sparse areas.

- 4) To be completed if "Instruction for methods of fire fighting or for research in the control of fire" is chosen in 2, above. If a structure is to be burned for fire training purposes, call the asbestos program coordinator to obtain a copy of the NESHAPS regulations (614-644-2270).
- Asphalt shingles should be removed prior to burning. Have they been removed?  
 Yes  No  Not Applicable
  - Vinyl siding should be removed prior to burning. Has all vinyl siding been removed?  
 Yes  No  Not Applicable
  - Asbestos containing material may need to be removed<sup>1</sup> prior to burning. Friable asbestos must be removed by a licensed asbestos abatement contractor. Have all asbestos containing materials been removed?  
 Yes  No  Not Applicable

- 5) Did the material to be burned originate from the same site where it is being burned?  
 Yes  No

- 6) Is the burning site located within a restricted area? A restricted area is defined as the area within the boundaries of any municipal corporation (plus a 1,000 foot zone around cities having a population of 1,000 - 10,000 and a one (1) mile zone around cities greater than 10,000).  
 Yes  No

- 7) Provide the date(s) and Time(s) when the burning is anticipated to take place:

Begin	
Date	Time

End	
Date	Time

Or,

For recognized horticultural, silvicultural, range management or wildlife management practices, please identify the range of dates and times the burn is expected to occur:

From: February 17, 2014 To: May 23, 2014

<sup>1</sup> All demolition/renovation must be reported. If ACM is present, notification or approval for removal must be completed. See instructions for more details.

# Open Burning Request Form

8) What methods or actions will be taken to reduce the emission of air contaminants?

Current and forecast meteorological data will be utilized to identify wind and atmospheric conditions for the area. The effects of smoke to the local area and the ambient air quality will be minimized by burning only on days with upward air movement. Prescribed burn will be limited to days when the air currents would lift the smoke to altitudes above 1700 feet. Weather thresholds would also include direction of wind. If smoke could be blown towards sensitive areas without sufficient lift, then the burn would be postponed.  
 A copy of prescribed fire burn plan is attached with five mile sensitive area map.

### Fire Department Section

1) Local ordinances may prohibit burning, or require additional restrictions. Please identify the local fire department where the burn will take place. Please obtain signature of the Fire Chief (note, this is not required but failure to notify may subject you to violation of local ordinances).

Township Fire Department Section			
Fire Chief (printed name):	<b>Bruce Downard</b>		
Name of Fire Department:	<b>Crosby Township Fire Department</b>		
Address:	<b>9139 Baughman Road</b>	<b>Crosby Township</b>	<b>45030</b>
	<i>Street</i>	<i>City/Township</i>	<i>Zip Code</i>
Phone Number	<b>(513) 738-1831</b>		
Signature of Fire Chief:			
Comments from Fire Chief (if any):			

### Submission Certification

I, certify that the information set forth above is true and complete.

I realize that the Ohio EPA, after this request, may determine that the open burning is not allowed under its regulations, or may impose certain requirements as part of approval of my request, and shall notify me to that effect once they make such a determination.

In addition, I realize that no open burning shall be conducted in an area where an air pollution alert, warning, or emergency is in effect and that submission of this notification of intent does not exempt me from compliance with any other state or local regulation or ordinance.

*Handwritten Signature*  
 Signature

*2-17-2014*  
 Date

## Open Burning Request Form Instructions

### Submission Certification

Sign and date the request. Note the signature criteria prior to signing the request. Ohio is substantially in attainment with the national ambient air quality standards. As a result, air pollution emergencies and warnings very are rare in Ohio. The following link provides the technical criteria for air pollution emergencies and warnings: <http://epa.ohio.gov/portals/27/regs/3745-25/3745-25-02.pdf>  
In addition, it is also important to check your local forecast for weather conditions prior to burning to make sure conditions are such that they will minimize air pollution impacts.

### Additional important information to note:

- The Ohio Department of Natural Resources has statutory authority for reviewing requests to conduct prescribed burns (e.g., burning off fields to promote prairie grasses). In addition, concerned with the potential for brush and forest fires, the ODNR Division of Forestry prohibits outdoor burning in rural areas between the hours of 6 a.m. and 6 p.m. during the typically dry months of March, April, May, October and November. So, regardless of if Ohio EPA grants permission to open burn from an environmental perspective, if you live in an unincorporated area, ODNR may deny permission to burn during these times/months due to fire safety concerns. For more information, see the following ODNR resources:  
<http://www.dnr.state.oh.us/Portals/18/fire/pdf/OhioFireLaw.pdf>  
<http://www.dnr.state.oh.us/forestry/Home/fire/wildfire/tabid/5146/Default.aspx>
- Some local jurisdictions may have additional restrictions on burning materials or burning at times that are otherwise approvable under Ohio EPA's open burning rules. The following links can be used to access Ohio township and city/village websites:  
Townships via the Ohio Township Association  
<http://cpmra.muohio.edu/otaohio/Websites.htm>  
Cities & Villages via the Ohio Municipal League  
<http://www.omloho.org/OMLMunicipalData/omlmunidata.htm>

# Skillet Prescribed Burn Acceptable Wind Directions

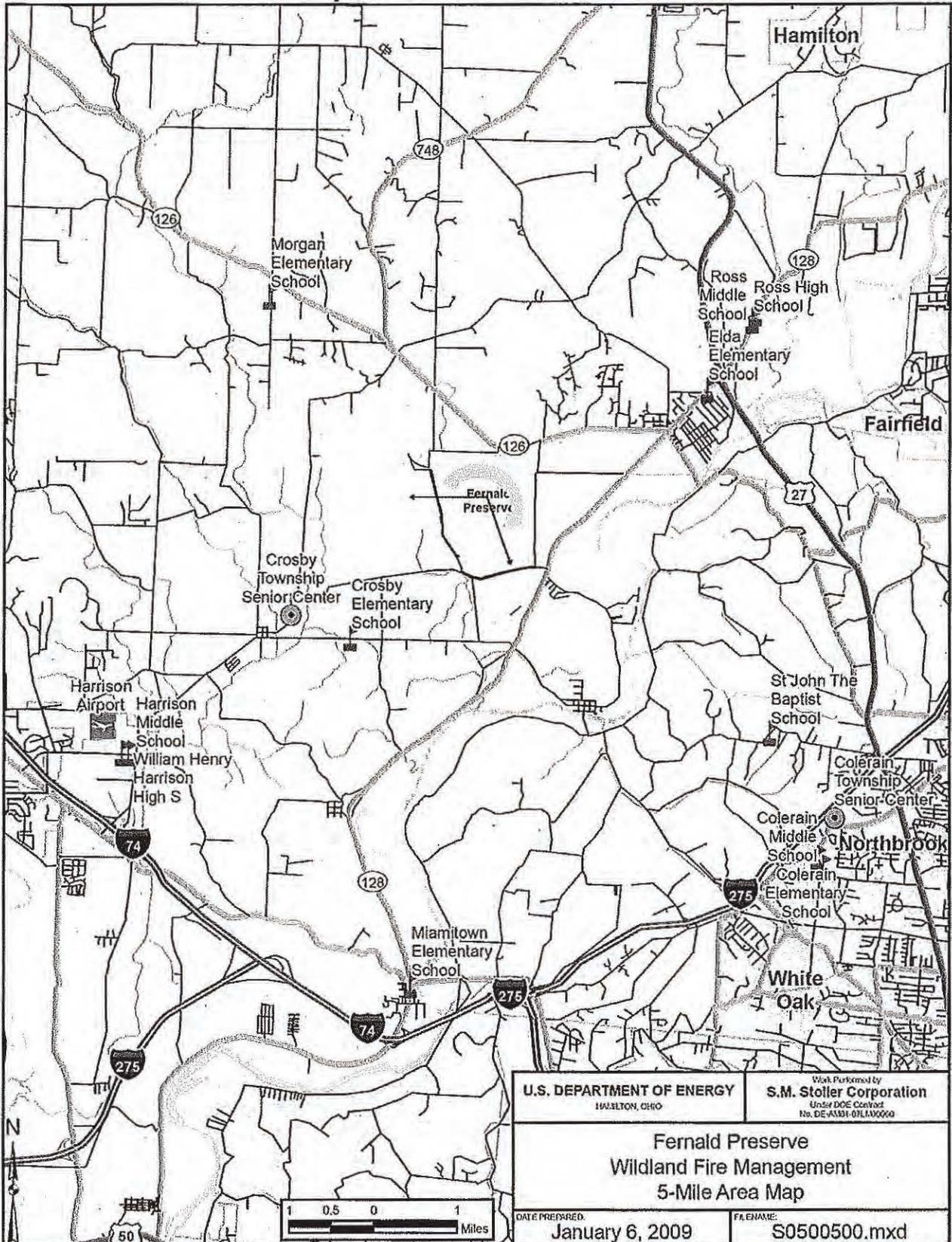


Acceptable Wind Direction

# Skillet Prescribed Burn Acceptable Wind Directions



# Skillet Prescribed Burn Acceptable Wind Directions



<b>U.S. DEPARTMENT OF ENERGY</b> <small>HAMILTON, OHIO</small>	<small>Work Performed by</small> <b>S.M. Stoller Corporation</b> <small>Under DOE Contract          No. DE-AM31-01LA0000</small>
<b>Fernald Preserve          Wildland Fire Management          5-Mile Area Map</b>	
<small>DATE PREPARED:</small> <b>January 6, 2009</b>	<small>FILE NAME:</small> <b>S0500500.mxd</b>



## Fernald Preserve Prescribed Fire Burn Plan

**Burn Name:** Skillet Prairie Burn      **Burn Manager:** Harold Swiger      **Date of Fire:** \_\_\_\_\_

**Burn Location:** The burn area is in the center of the Fernald Preserve at 7400 Willey Road, 45030. It is to the NE of the site Visitor's Center. It is bounded on the west by the site's Hickory Trail that goes north from the Visitor's Center, on the south by the Community Pond and Swan Pond, on the east and north by the Fernald former production area main drainage corridor.

**County:**  Butler (Ross Township)     Hamilton (Crosby Township)    **State:** Ohio

**Burn Size:** Approximately 22.5 acres

**Site Description:** The area consists of rolling topography with one deep water pond and seven vernal pools. The vegetation consists of tall grass prairie with scattered shrub patches that have been planted in the area. Monitoring Well 2010 is located on the west side of the burn area and a piezometer (FPAW2-PZ1) is located at a wetland on the east side of the burn area. A water spigot is located on top of SW bank of the Skillet Pond and has a hose running down to the water. A solar panel is also located at top of SW bank of the Skillet Pond; it supplies power for geo-thermal unit in bottom of the pond.

<b>Fuel Types:</b> <u>Fuel Model 1 – grass less than 3 feet in height</u>	<u>9</u>	% of Unit Area
<u>Fuel Model 3 – grass greater than 3 feet in height</u>	<u>90</u>	% of Unit Area
<u>Fuel Model 9 – woody debris</u>	<u>1</u>	% of Unit Area
_____	_____	% of Unit Area

**Purpose of Burn:** Improve grass composition and maintain plant health and growth

- Burn Objectives:** Reduce thatch levels
- Control undesirable and invasive plant species
  - Promote early growth of desirable grass and forb species

Permits	Submittal Date	Receipt Date
Ohio Div. of Forestry Request for Waiver of ORC 1503.18	_____	_____
Ohio EPA Open Burn Notification	_____	_____

Smoke Sensitive Areas	Direction	Distance	Down Wind?
Crosby Elementary School	Southwest of site	~2.2 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Crosby Senior Center	Southwest of site	~2.6 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Elda Elementary School	Northeast of site	~2.9 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Ross Middle/High Schools	Northeast of site	~3.7 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Morgan Elementary School	Northwest of site	~3.3 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
St John the Baptist School	Southeast of site	~4.4 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Cincinnati West Airport	Southwest of site	~4.9 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Harrison Middle/High Schools	Southwest of site	~4.6 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
CSX Railroad Line	West of site	~1 mile	Yes <input type="checkbox"/> No <input type="checkbox"/>
State Route 126	North of site	~1/2 mile	Yes <input type="checkbox"/> No <input type="checkbox"/>
State Route 128	East of site	~1 mile	Yes <input type="checkbox"/> No <input type="checkbox"/>
_____	_____	_____	Yes <input type="checkbox"/> No <input type="checkbox"/>
_____	_____	_____	Yes <input type="checkbox"/> No <input type="checkbox"/>

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: Skillet Prairie Burn

Burn Manager: Harold Swiger #2007019

<b>Wind Factors</b>		<b>Acceptable Range</b>	<b>Predicted</b>	<b>Actual</b>
Surface Winds	Speed	2 to 12 mph		
	Direction	East clockwise to NNW		
Transport Winds	Speed	≥5 mph		
Minimum mixing height		1700 ft. to 6500 ft.		
Haines index		3 to 5		

<b>Weather Factors</b>		<b>Acceptable Range</b>	<b>Predicted</b>	<b>Actual</b>
Minimum relative humidity		30% to 55%		
Maximum temperature		38° F to 78° F		
Fine fuel moisture		6% to 20%		
Soil Moisture		28% – 44% / 22%- 34%		
Soil Type			Clay/clay loam	

<b>Fire Behavior</b>		<b>Acceptable Range</b>	<b>Actual</b>
Type fire		Strip-heading fire	
Head-fire flame length		6.5 ft. to 20.2 ft	
Head-fire rate of spread		28 ch/h to 286 ch/h	
Date of Burn		Feb. 17 and May 23, 2014	
Time of Burn		10:00 hrs. to 18:00 hrs.	

**Line of Responsibility**

<b>Name of Crew Member</b>	<b>Responsibility</b>	<b>Report</b>
Henry Becker		
Stephanie Bien		
Joey Bowles		
Ken Broberg		
Brian Dietz		
Cathy Glassmeyer		
Bill Gutzwiller		
John Homer		
Lisa McHenry		
Katie Payne		
Tim Sparks		
Scott Strickland		
Karen Voisard		
Jon Walters		
Phil Williams		
Chuck White		

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: Skillet Prairie Burn

Burn Manager: Harold Swiger #2007019

Equipment	Location	Crew Size
3 - Drip torches	Fire perimeter and interior	2 people
2 - Pumps on Gators	Fire perimeter	4 - 2 crews of 2 people
1 - Pump on truck	Fire perimeter at trail	1 - as needed
9 - Hand Tools	Fire perimeter and mop-up	9 - on Gators/as needed
7 - Backpack Pumps	Fire perimeter and mop-up	7 - as needed
6 - Fusee torches	Fire perimeter and interior	w/Sector Bosses

**Site Preparation/Fire Breaks:** Mow a fire break around the perimeter of the burn boundary, the top of bank of open water to north, the top of bank of Skillet Pond, and MW 2010. Fire break will be approximately 20 feet wide. Cut a 3 to 10 feet buffer around Piezometer FPAW2-PZ1, wildlife structures, and shrub patches and cut the grasses within each patch. Ensure cut grass is not bunched or piled within fire breaks or around structures or shrubs. Wet the downwind sector of the burn area prior to beginning burn.

Escape routes will be along fire break westward to Hickory Trail and south along trail to visitor center and the Safety Zone in parking lot.

**Site Restoration Work:** Evaluate the completeness and effectiveness of burns.

Repair any areas in which the soil has been damaged and seed with native prairie mix.

Stakeholders/Neighbors to Notify	Contact Number	Date	Time
Dorothy Nieman	On file		
Dave Nieman	On file		
Sandy Butterfield	On file		
Bill Knollman	On file		
Russ Beckner	On file		
Carl Summe	On file		
Ross Township Trustees	On file		
Crosby Township Trustees	On file		
Morgan Township Trustees	On file		
Northwest Schools Superintendent	On file		
Morgan-Ross Schools Superintendent	On file		
Tom Schneider, OEPA	On file		
Lisa Crawford	On file		

Emergency Contacts	Phone	Cell
Medical/Fire/Law Enforcement	<b>911</b>	
Stoller Site Manager	(513) 648-5294	(513) 910-6107
LM Site Manager	(513) 648-3148	(513) 910-4009

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: Skillet Prairie Burn

Burn Manager: Harold Swiger #2007019

Contact List	Contact Number	Pre-Fire Date/Time	Post-Fire Date/Time
Hamilton County Sheriff's Office	(513) 825-2280	/	/
Butler County Sheriff's Office	(513) 785-1300	/	/
Crosby Township Fire Department	(513) 738-1831	/	/
Ross Fire Department	(513) 863-3410	/	/
Ross Police Department	(513) 863-2337	/	/
Ohio State Highway Patrol	(513) 863-4606	/	/

**Site Mop-Up:** Mop-up will consist of passing through fire area after fire is out and wetting down all smoldering and smoking debris. Embers will be cut from large debris and soaked.

Monitoring well, piezometer, and other structures will be checked to ensure they are not damaged.

**Final Fireline Condition:** \_\_\_\_\_

**Burn Manager:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Time:** \_\_\_\_\_



Recommended Open Burning Notification Form (intended for required notifications – form itself is not required as long as the information identified herein is included in your notification)

**Personal Information**

Full Name: Swiger Harold E  
*Last First M.I.*

Address: S.M. Stoller Corp., 10995 Hamilton-Cleves Hwy.  
*Street Address Apartment/Unit #*

Harrison Ohio 45030  
*City State ZIP Code*

Home Phone: 513-648-7528 Alternate Phone:                     

**Open Burning Site Information**

Burn Site Address: 7400 Willey Road  
*Street Address*

Crosby Township Hamilton  
*City or Township County*

1) Provide a sketch of the burn location below or on an attached sheet. Include the location of the site and burn location within the site, nearest road intersection(s) and distance to/placement of nearest off-site structures including a map showing distances to residences, populated areas, roadways, air fields, and other pertinent landmarks.

**Maps containing burn location and five mile radius are attached.**

2) Describe the purpose for the burn.

Choose a category:

- Prevention or control of disease or pests, with written or verbal verification to the Ohio EPA from the local health department, cooperative extension service, Ohio department of agriculture, or U.S. department of agriculture, that open burning is the only appropriate disposal method.
- Recognized horticultural, silvicultural, range management or wildlife management practices
- Bonfires or campfires used for ceremonial purposes
- Disposal of agricultural waste generated on the premises

Provide a brief written description of your proposed burn:

Snail Prairie burn is located in the Center of the Fernald Preserve site. The burn area is located on the east side of the site's former production area and just west of the site's On-Site Disposal Facility.

This mixture of mesic and wetland prairie is in a relatively level area but the topography drops quickly along the drainages in the north and south of the area; and adjacent to ponds on SE and SW corner of the area. The vegetation consists mainly of mesic prairie in flat areas and wet prairie species in the drainages and next to the ponds. Some thistle and teasel have moved into portions of north half of the area.

**Recommended Open Burning Notification Form** (intended for required notifications -- form itself is not required as long as the information identified herein is included in your notification)

3) Describe the material to be burned and the quantity of the material to be burned for any category identified in 2 above

Snail Prairie Burn is approximately 11.4 acres in size.

Fuel types include:

- Fuel Model 1 – grass <3 feet in height	8	% of Unit Area
- Fuel Model 3 – grass >3 feet in height	91	% of Unit Area
- Fuel Model 9 – woody debris	1	% of Unit Area

Fuel loads are moderate

4) Did the material to be burned originate from the same site where it is being burned?

Yes  No

5) Provide the date(s) and Time(s) when the burning is anticipated to take place:

Begin		End	
Date	Time	Date	Time

Or,

For recognized horticultural, silvicultural, range management or wildlife management practices, please identify the range of dates and times the burn is expected to occur:

From: February 17, 2014 To: May 23, 2014

6) What methods or actions will be taken to reduce the emission of air contaminants?

Current and forecast meteorological data will be utilized to identify wind and atmospheric conditions for the area. The effects of smoke to the local area and the ambient air quality will be minimized by burning only on days with upward air movement. Prescribed burn will be limited to days when the air currents would lift the smoke to altitudes above 1700 feet. Weather thresholds would also include direction of wind. If smoke could be blown towards sensitive areas without sufficient lift, then the burn would be postponed.

A copy of prescribed fire burn plan is attached with five mile sensitive area map.

**Recommended Open Burning Notification Form** (intended for required notifications – form itself is not required as long as the information identified herein is included in your notification)

1) Local ordinances may prohibit burning, or require additional restrictions. Please identify the local fire department where the burn will take place. Please obtain signature of the Fire Chief (note, this is not required but failure to notify may subject you to violation of local ordinances).

Fire Department Section			
Fire Chief (printed name):	Bruce Downard		
Name of Fire Department:	Crosby Township Fire Department		
Address:	9139 Baughman Road	Crosby Township	45030
	<i>Street</i>	<i>City/Township</i>	<i>Zip Code</i>
Phone Number	(513) 738-1831		

Fire Department Section (continued)	
Signature of Fire Chief:	
Comments from Fire Chief (if any):	

**Submission Certification**

I, certify that the information set forth above is true and complete.

I realize that the Ohio EPA, after this notification, may determine that the open burning is not allowed under its regulations, or may impose certain requirements as part of review of my request, and shall notify me to that effect once they make such a determination. I hereby certify that the burn presented in the notification above will not occur less than ten (10) working days before the fire is to be set. I recognize that Saturday, Sunday, and legal holidays are not considered a working day.

In addition, I realize that no open burning shall be conducted in an area where an air pollution alert, warning, or emergency is in effect and that submission of this notification of intent does not exempt me from compliance with any other state or local regulation or ordinance.

  
Signature

2-17-2014  
Date

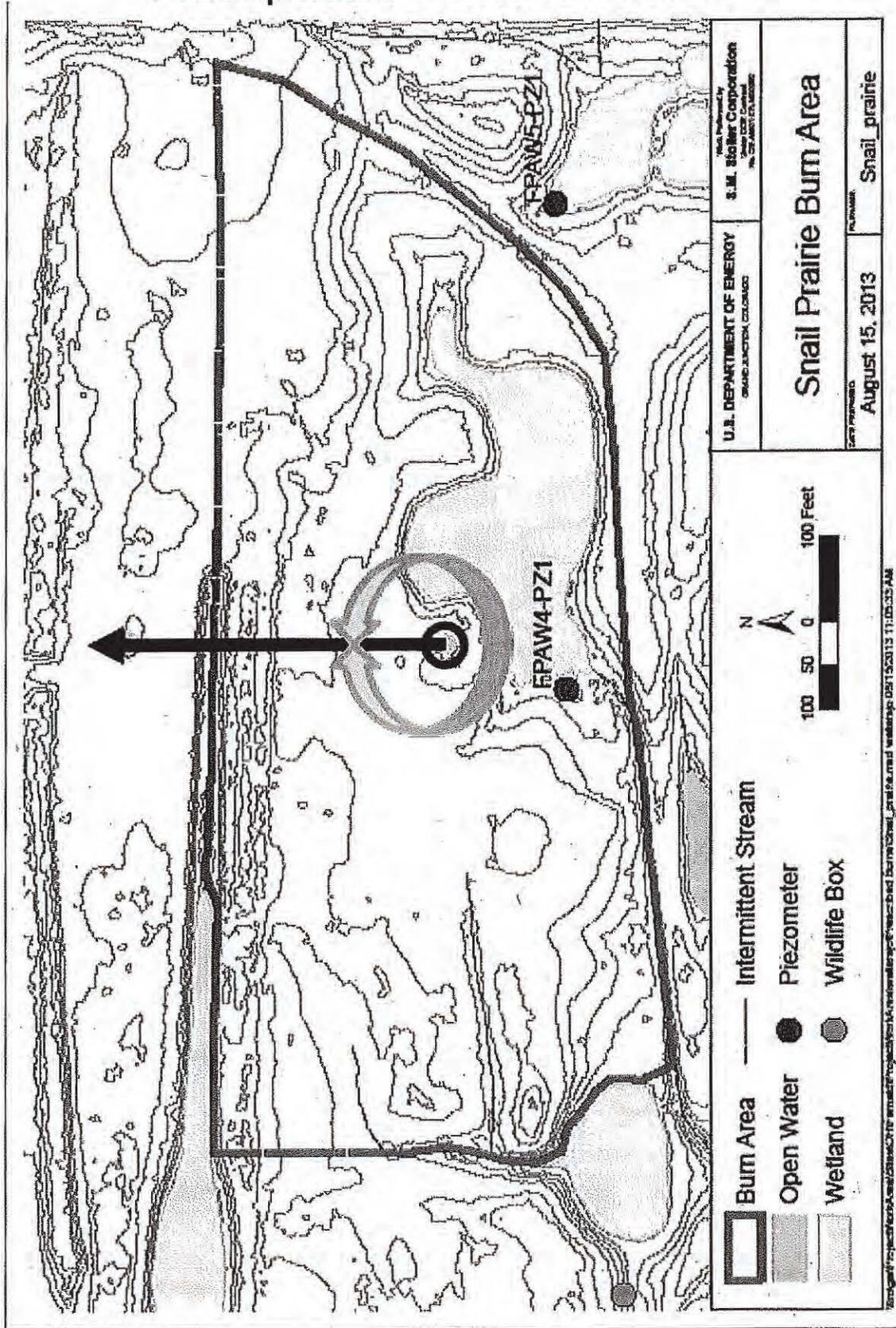
### Submission Certification

Sign and date the notification. Note the signature criteria prior to signing the notification. Ohio is substantially in attainment with the national ambient air quality standards. As a result, air pollution emergencies and warnings very are rare in Ohio. The following link provides the technical criteria for air pollution emergencies and warnings: <http://www.epa.ohio.gov/portals/27/regs/3745-25/3745-25-02.pdf> In addition, it is also important to check your local forecast for weather conditions prior to burning to make sure conditions are such that they will minimize air pollution impacts.

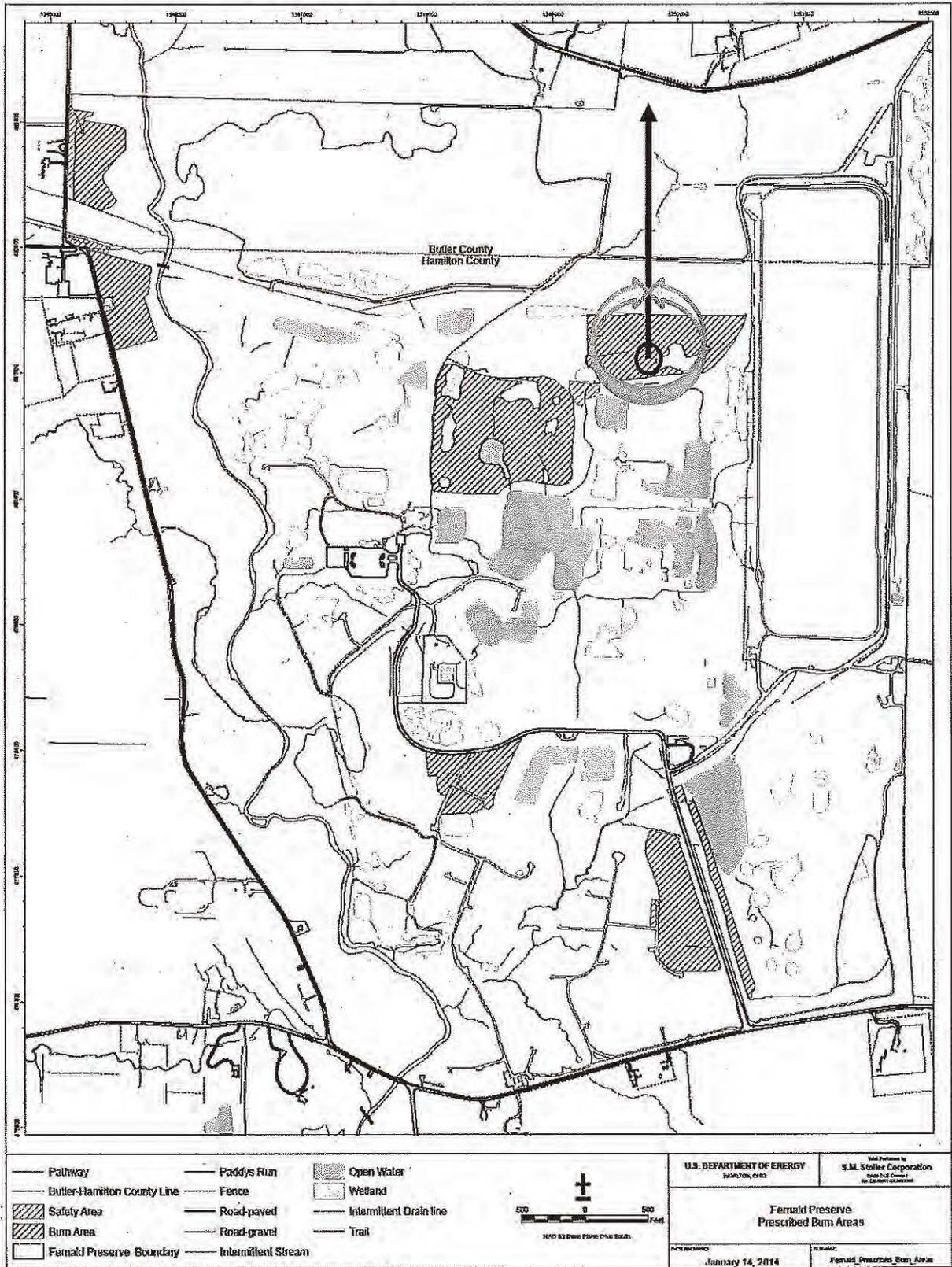
### Additional important information to note:

- The Ohio Department of Natural Resources has statutory authority for reviewing requests to conduct prescribed burns (e.g., burning off fields to promote prairie grasses). In addition, concerned with the potential for brush and forest fires, the ODNR Division of Forestry prohibits outdoor burning in rural areas between the hours of 6 a.m. and 6 p.m. during the typically dry months of March, April, May, October and November. So, regardless of if Ohio EPA grants permission to open burn from an environmental perspective, if you live in an unincorporated area, ODNR may deny permission to burn during these times/months due to fire safety concerns. For more information, see the following ODNR resources:  
<http://www.dnr.state.oh.us/Portals/18/fire/pdf/OhioFireLaw.pdf>  
<http://www.dnr.state.oh.us/forestry/Home/fire/wildfire/tabid/5146/Default.aspx>
- Some local jurisdictions may have additional restrictions on burning materials or burning at times that are otherwise approvable under Ohio EPA's open burning rules. The following links can be used to access Ohio township and city/village websites:  
Townships via the Ohio Township Association  
<http://cpmra.muohio.edu/otaohio/Websites.htm>  
Cities & Villages via the Ohio Municipal League  
<http://www.omloho.org/OMLMunicipalData/omlmunidata.htm>

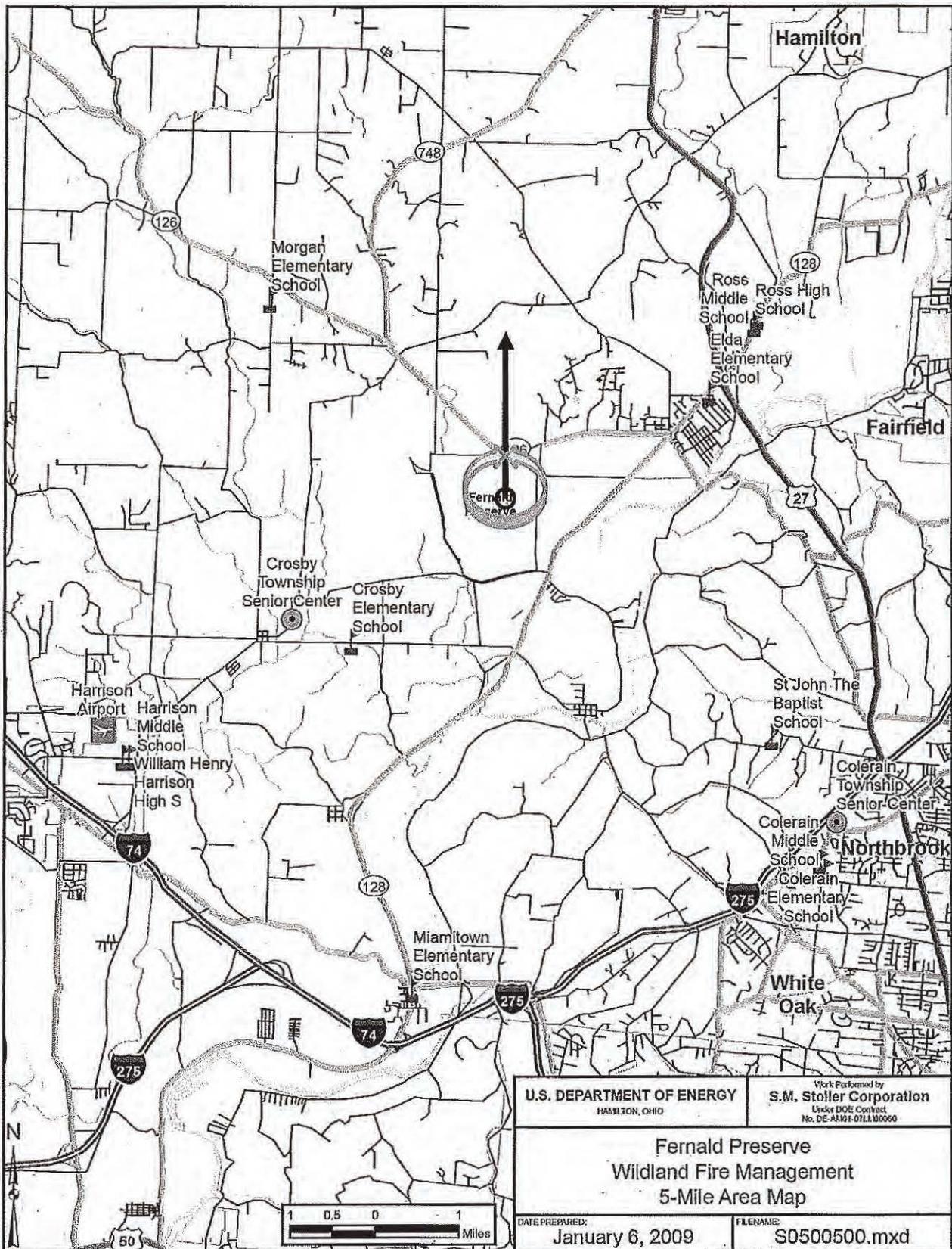
# Snail Prairie Prescribed Burn Acceptable Wind Direction



# Snail Prairie Prescribed Burn Acceptable Wind Direction



# Snail Prairie Prescribed Burn Acceptable Wind Direction



U.S. DEPARTMENT OF ENERGY HAMILTON, OHIO	Work Performed by <b>S.M. Stoller Corporation</b> Under DOE Contract No. DE-AM91-07LA00060
<b>Fernald Preserve</b> Wildland Fire Management 5-Mile Area Map	
DATE PREPARED: January 6, 2009	FILENAME: S0500500.mxd



## Fernald Preserve Prescribed Fire Burn Plan

**Burn Name:** Snail Prairie      **Burn Manager:** Harold Swiger      **Date of Fire:** \_\_\_\_\_

**Burn Location:** The Snail Prairie Prescribed Burn is located at the Fernald Preserve at 7400 Willey Road in Crosby Township in Hamilton County, Ohio. The burn area is found in the center of the site on the east side of the former production area (FPA) just west of the On-Site Disposal Facility (OSDF). The eastern and southern edges of the burn area are along the site firebreak through the FPA (see attached map).

**County:**  Butler (Ross Township)     Hamilton (Crosby Township)      **State:** OHIO

**Burn Size:** Approximately 11.4 acres

**Site Description:** This mixture of mesic and wetland prairie is in a relatively level area but the topography drops quickly along the drainages in the north and south of the area; and adjacent to the Snail Pond on SE and Candy Pond on SW corner of the area. The vegetation consists mainly of mesic prairie in flat areas and wet prairie species in the drainages and next to the ponds. Some thistle and teasel have moved into portions of the area in the north half of area.

A piezometer (FPA-W4-P21) is located on the NW corner of the Snail Pond.

<b>Fuel Types:</b> <u>Fuel Model 1 – grass less than 3 feet in height</u>	<u>8</u>	% of Unit Area
<u>Fuel Model 3 – grass greater than 3 feet in height</u>	<u>91</u>	% of Unit Area
<u>Fuel Model 9 – woody debris</u>	<u>1</u>	% of Unit Area
		% of Unit Area

**Purpose of Burn:** Maintain plant health and growth and reduce competition by invasive plant species.

- Burn Objectives:**    - Reduce thatch levels
- Control undesirable and invasive plant species.
  - Promote early growth of desirable grass and forb species
  - Prepare site for application of herbicide to control invasive species

Permits	Submittal Date	Receipt Date
<u>Ohio Div. of Forestry Request for Waiver of ORC 1503.18</u>	_____	_____
<u>Ohio EPA Open Burn Notification</u>	_____	_____

Smoke Sensitive Areas	Direction	Distance	Down Wind?
<u>Crosby Elementary School</u>	<u>Southwest of site</u>	<u>~2.59 miles</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Crosby Senior Center</u>	<u>Southwest of site</u>	<u>~2.98 miles</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Elda Elementary School</u>	<u>Northeast of site</u>	<u>~2.69 miles</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Ross Middle/High Schools</u>	<u>Northeast of site</u>	<u>~3.54 miles</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Morgan Elementary School</u>	<u>Northwest of site</u>	<u>~3.55 miles</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>St John the Baptist School</u>	<u>Southeast of site</u>	<u>~4.39 miles</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>US 27</u>	<u>North of site</u>	<u>~2.89 miles</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>CSX Railroad Line</u>	<u>West of site</u>	<u>~0.93 mile</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>State Route 126</u>	<u>North of site</u>	<u>~0.40 mile</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>State Route 128</u>	<u>East of site</u>	<u>~0.98 mile</u>	Yes <input type="checkbox"/> No <input type="checkbox"/>
_____	_____	_____	Yes <input type="checkbox"/> No <input type="checkbox"/>
_____	_____	_____	Yes <input type="checkbox"/> No <input type="checkbox"/>
_____	_____	_____	Yes <input type="checkbox"/> No <input type="checkbox"/>

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: SNAIL PRAIRIE

Burn Manager: Harold Swiger #2007019

Wind Factors		Acceptable Range	Predicted	Actual
Surface Winds	Speed	4 to 12 mph		
	Direction	All		
Transport Winds	Speed	≥5 mph		
Minimum mixing height		1700 ft. to 6500 ft.		
Haines index		3 to 5		

Weather Factors		Acceptable Range	Predicted	Actual
Minimum relative humidity		30% to 55%		
Maximum temperature		40° F to 78° F		
Fine fuel moisture		6% to 20%		
Soil Moisture		>28% / >22%		
Soil Type		Clay / clay loam		

Fire Behavior		Acceptable Range	Actual	
Type fire		Strip-head fires/circle fire		
Head-fire flame length		2.4 ft. to 22.5 ft.		
Head-fire rate of spread		35 ch/h to 361 ch/h		
Date of Burn		Feb. 17 – May 23, 2014		
Time of Burn		10:00 hrs. to 18:00 hrs.		

**Line of Responsibility**

Name of Crew Member	Responsibility	Report
Henry Becker		
Stephanie Bien		
Joey Bowles		
Ken Broberg		
Brian Dietz		
Cathy Glassmeyer		
Roger Grant		
Bill Gutzwiller		
John Homer		
Lisa McHenry		
Larry Oeffner		
Katie Payne		
Tim Sparks		
Scott Strickland		
Karen Voisard		
Jon Walters		
Phil Williams		
Chuck White		

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: SNAIL PRAIRIE

Burn Manager: Harold Swiger #2007019

Equipment	Location	Crew Size
2 - Pump on Gator	Fireline around perimeter	4 crew members
4 - Backpack pumps	Fireline around perimeter	4 crew members
1 -Tank and pump on pick-up	Site Fire break on east flank	1 crew member
Hand tools	Fireline around perimeter	3 crew members
2 - Drip torch	Within burn boundary	2 crew members

**Site Preparation/Fire Breaks:** A 15 feet wide firebreak will be mowed along north and west edges of the burn area from the Site Firebreak west ward to the NW corner of the burn and then south along western edge of the burn area to the small pond on SW corner of burn using a bush-hog. Grasses will be raked out of firebreak into the burn area. A 10 feet wide firebreak will be mowed along the inside edge of the Site Firebreak on the southern edge of the burn area using bush-hog. Grasses will be mowed back around piezometer on edge of the Snail Pond and removed from mowed area.

**Site Restoration Work:** Evaluate the completeness and effectiveness of burn. Apply herbicide spot spray to any invasive plants (i.e., thistle, teasel, etc.) that may resprout after burn. Over-seed areas previously overtaken by invasive species with prairie mixes using seed drill pulled by tractor or broadcast method two weeks following spot spraying. If vegetation does not re-establish on banks of ponds by mid-December, erosion control matting or mulch berms may be placed on banks to prevent erosion of banks into water bodies.

Stakeholders/Neighbors to Notify	Contact Number	Date	Time
Dorothy Nieman	Number on file		
Dave Nieman	Number on file		
Sandy Butterfield	Number on file		
Bill Knollman	Number on file		
Russ Beckner	Number on file		
Carl Summe	Number on file		
Ross Township Trustees	Number on file		
Crosby Township Trustees	Number on file		
Morgan Township Trustees	Number on file		
Northwest Schools Superintendent	Number on file		
Morgan-Ross Schools Superintendent	Number on file		
Tom Schneider, OEPA	Number on file		

Emergency Contacts	Phone	Cell
Medical/Fire/Law Enforcement	<b>911</b>	
Stoller Site Manager	(513) 648-5294	(513) 910-6107
LM Site Manager	(513) 648-3148	(513) 910-4009

U.S. Department of Energy Office of Legacy Management

Fernald Preserve Prescribed Fire Burn Plan (continued)

Burn Name: SNAIL PRAIRIE Burn Manager: Harold Swiger #2007019

Contact List	Contact Number	Pre-Fire Date/Time	Post-Fire Date/Time
Hamilton County Sheriff's Office	(513) 825-2280	/	/
Butler County Sheriff's Office	(513) 785-1300	/	/
Crosby Township Fire Department	(513) 738-1831	/	/
Ross Fire Department	(513) 863-3410	/	/
Ross Police Department	(513) 863-2337	/	/
Ohio State Highway Patrol	(513) 863-4606	/	/

**Site Mop-Up:** Mop-up will consist of passing through fire area after fire is out and wetting down all smoldering and smoking debris.

**Final Fireline Condition:** \_\_\_\_\_

**Burn Manager:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_



Recommended Open Burning Notification Form (intended for required notifications – form itself is not required as long as the information identified herein is included in your notification)

**Personal Information**

Full Name: Swiger Harold E  
Last First M.I.

Address: S.M. Stoller Corp., 10995 Hamilton-Cleves Hwy.  
Street Address Apartment/Unit #

Harrison Ohio 45030  
City State ZIP Code

Home Phone: 513-648-7528 Alternate Phone: \_\_\_\_\_

**Open Burning Site Information**

Burn Site Address: 7400 Willey Road  
Street Address

Crosby Township Hamilton  
City or Township County

1) Provide a sketch of the burn location below or on an attached sheet. Include the location of the site and burn location within the site, nearest road intersection(s) and distance to/placement of nearest off-site structures including a map showing distances to residences, populated areas, roadways, air fields, and other pertinent landmarks:

**Maps containing burn location and five mile radius are attached.**

2) Describe the purpose for the burn.

Choose a category:

- Prevention or control of disease or pests, with written or verbal verification to the Ohio EPA from the local health department, cooperative extension service, Ohio department of agriculture, or U.S. department of agriculture, that open burning is the only appropriate disposal method.
- Recognized horticultural, silvicultural, range management or wildlife management practices
- Bonfires or campfires used for ceremonial purposes
- Disposal of agricultural waste generated on the premises

Provide a brief written description of your proposed burn:

South Field Prairie burn is located on the southern end of the Fernald Preserve site. The burn area is located on the west side of the site's Willey Road entrance road. The area is a gently sloping mesic prairie. Some thistle and teasel have moved into portions of the area.

The purpose of the burn will be to maintain plant health within the area by recuing thatch levels and controlling undesirable and invasive plant species.

**Recommended Open Burning Notification Form** (intended for required notifications – form itself is not required as long as the information identified herein is included in your notification)

3) Describe the material to be burned and the quantity of the material to be burned for any category identified in 2 above

South Field Prairie Burn is approximately 8.0 acres in size.

Fuel types include:

- Fuel Model 1 – grass <3 feet in height	30	% of Unit Area
- Fuel Model 3 – grass >3 feet in height	70	% of Unit Area
- Fuel Model 9 – woody debris	0	% of Unit Area

Fuel loads are moderate

4) Did the material to be burned originate from the same site where it is being burned?  
 Yes  No

5) Provide the date(s) and Time(s) when the burning is anticipated to take place:

Begin		End	
Date	Time	Date	Time

Or,  
 For recognized horticultural, silvicultural, range management or wildlife management practices, please identify the range of dates and times the burn is expected to occur:  
**From: February 17, 2014 To: May 23, 2014**

6) What methods or actions will be taken to reduce the emission of air contaminants?

Current and forecast meteorological data will be utilized to identify wind and atmospheric conditions for the area. The effects of smoke to the local area and the ambient air quality will be minimized by burning only on days with upward air movement. Prescribed burn will be limited to days when the air currents would lift the smoke to altitudes above 1700 feet. Weather thresholds would also include direction of wind. If smoke could be blown towards sensitive areas without sufficient lift, then the burn would be postponed.

A copy of prescribed fire burn plan is attached with five mile sensitive area map.

**Recommended Open Burning Notification Form** (intended for required notifications – form itself is not required as long as the information identified herein is included in your notification)

1) Local ordinances may prohibit burning, or require additional restrictions. Please identify the local fire department where the burn will take place. Please obtain signature of the Fire Chief (note, this is not required but failure to notify may subject you to violation of local ordinances).

Fire Department Section			
Fire Chief (printed name):	Bruce Downard		
Name of Fire Department:	Crosby Township Fire Department		
Address:	9139 Baughman Road	Crosby Township	45030
	<i>Street</i>	<i>City/Township</i>	<i>Zip Code</i>
Phone Number	(513) 738-1831		

Fire Department Section (continued)	
Signature of Fire Chief:	
Comments from Fire Chief (if any):	

**Submission Certification**

I, certify that the information set forth above is true and complete.

I realize that the Ohio EPA, after this notification, may determine that the open burning is not allowed under its regulations, or may impose certain requirements as part of review of my request, and shall notify me to that effect once they make such a determination. I hereby certify that the burn presented in the notification above will not occur less than ten (10) working days before the fire is to be set. I recognize that Saturday, Sunday, and legal holidays are not considered a working day.

In addition, I realize that no open burning shall be conducted in an area where an air pollution alert, warning, or emergency is in effect and that submission of this notification of intent does not exempt me from compliance with any other state or local regulation or ordinance.

*Bruce Downard*  
Signature

2-17-2014  
Date

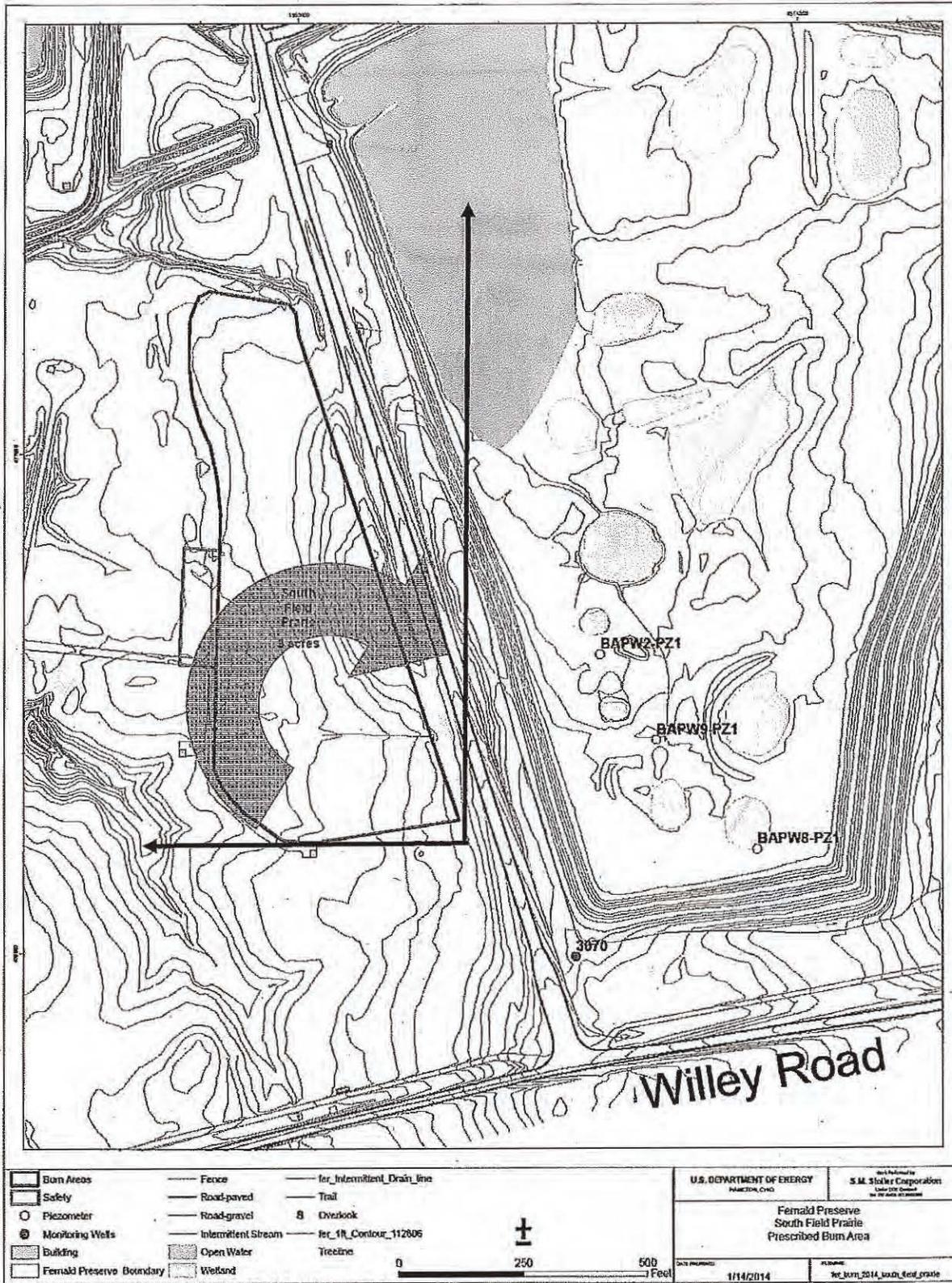
### Submission Certification

Sign and date the notification. Note the signature criteria prior to signing the notification. Ohio is substantially in attainment with the national ambient air quality standards. As a result, air pollution emergencies and warnings very are rare in Ohio. The following link provides the technical criteria for air pollution emergencies and warnings: <http://www.epa.ohio.gov/portals/27/regs/3745-25/3745-25-02.pdf> In addition, it is also important to check your local forecast for weather conditions prior to burning to make sure conditions are such that they will minimize air pollution impacts.

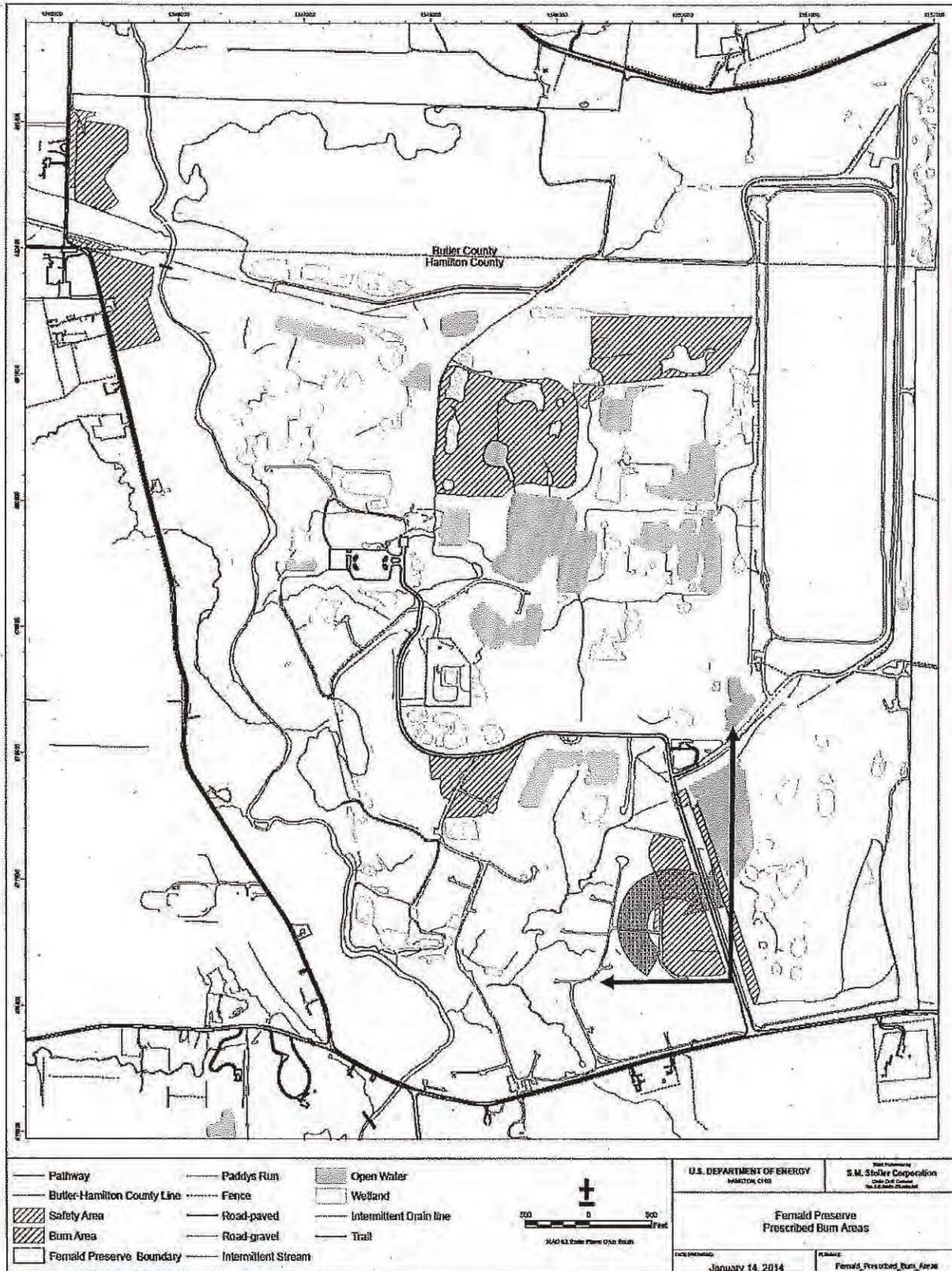
#### Additional important information to note:

- The Ohio Department of Natural Resources has statutory authority for reviewing requests to conduct prescribed burns (e.g., burning off fields to promote prairie grasses). In addition, concerned with the potential for brush and forest fires, the ODNR Division of Forestry prohibits outdoor burning in rural areas between the hours of 6 a.m. and 6 p.m. during the typically dry months of March, April, May, October and November. So, regardless of if Ohio EPA grants permission to open burn from an environmental perspective, if you live in an unincorporated area, ODNR may deny permission to burn during these times/months due to fire safety concerns. For more information, see the following ODNR resources:  
<http://www.dnr.state.oh.us/Portals/18/fire/pdf/OhioFireLaw.pdf>  
<http://www.dnr.state.oh.us/forestry/Home/fire/wildfire/tabid/5146/Default.aspx>
- Some local jurisdictions may have additional restrictions on burning materials or burning at times that are otherwise approvable under Ohio EPA's open burning rules. The following links can be used to access Ohio township and city/village websites:  
Townships via the Ohio Township Association  
<http://cpmra.muohio.edu/otaohio/Websites.htm>  
Cities & Villages via the Ohio Municipal League  
<http://www.omloho.org/OMLMunicipalData/omlmunidata.htm>

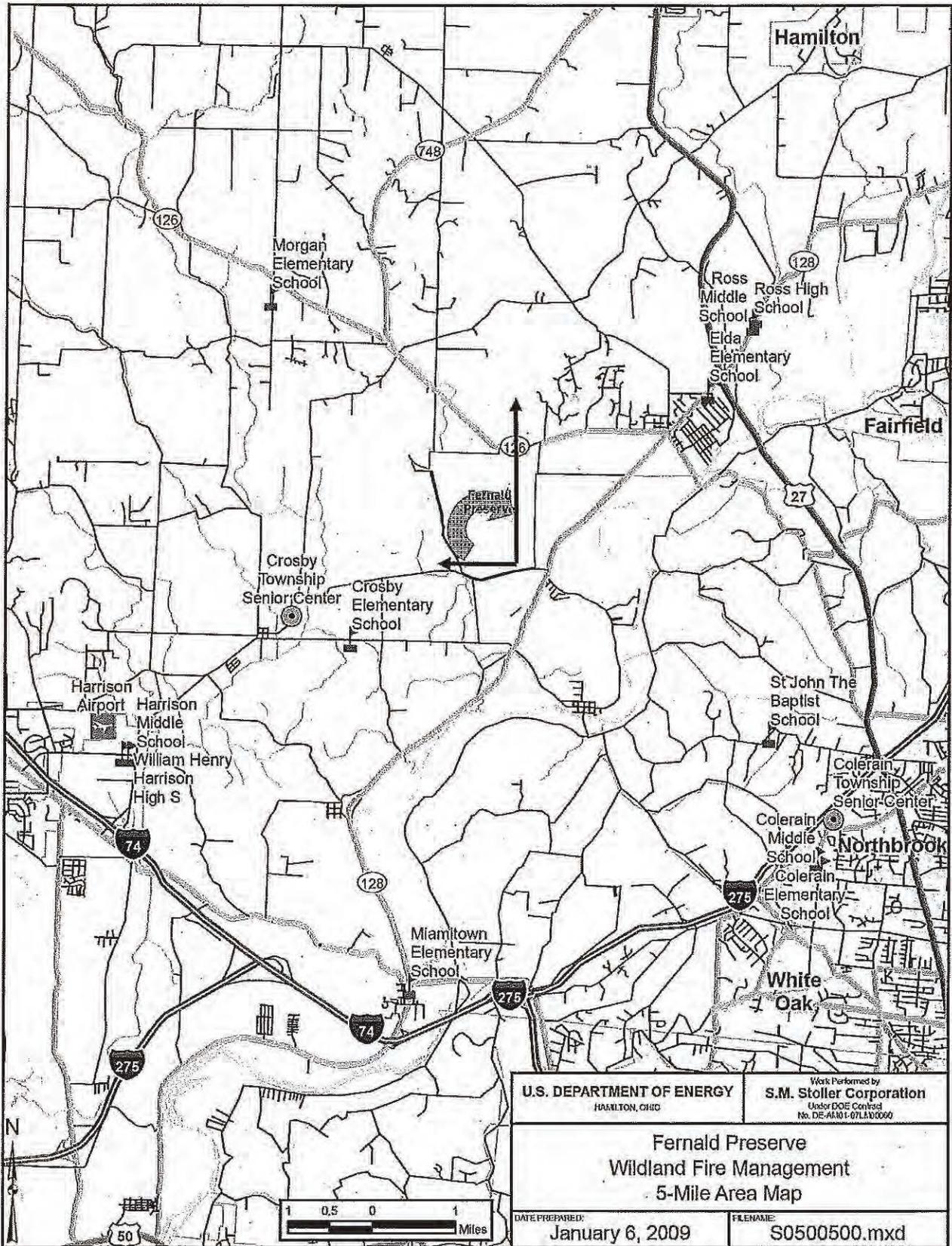
# South Field Prairie Prescribed Burn Acceptable Wind Direction



# South Field Prairie Prescribed Burn Acceptable Wind Direction



# South Field Prairie Prescribed Burn Acceptable Wind Direction



U.S. DEPARTMENT OF ENERGY  
HAMILTON, OHIO

Work Performed by  
**S.M. Stoller Corporation**  
Under DOE Contract  
No. DE-AC01-07L10000

Fernald Preserve  
Wildland Fire Management  
5-Mile Area Map

DATE PREPARED:

January 6, 2009

FILENAME:

S0500500.mxd





## Fernald Preserve Prescribed Fire Burn Plan

**Burn Name:** South Field Prairie      **Burn Manager:** Harold Swiger      **Date of Fire:** \_\_\_\_\_

**Burn Location:** The South Field Prairie Prescribed Burn is located at the Fernald Preserve at 7400 Willey Road, Ross, Ohio. The burn area is located on the southern end of the site; west of Willey Road entrance road onto the site. The area extends from the row of pines that border the road westward to gravel road that accesses extraction wells in the South Field; the area reaches from Well House 32 northward to the first drainage that crosses under the access road.

**County:**  Butler (Ross Township)     Hamilton (Crosby Township)      **State:** Ohio

**Burn Size:** Approximately 8.0 acres

**Site Description:** The area is a tallgrass prairie consisting of upland grasses and forbs with some cool season and wetland grasses dotting area. Some undesirable plant species are interspersed across area. The topography gently slopes from the east down to the west. Two well houses (31 & 32) are located on the edge of the burn area and two wells (2399 and 63286) are within the burn area. A double line of eastern white pines border the eastern edge of the burn.

<b>Fuel Types:</b>	Fuel Model 1 – grass less than 3 feet in height	30	% of Unit Area
	Fuel Model 3 – grass greater than 3 feet in height	70	% of Unit Area
	Fuel Model 9 – woody debris		% of Unit Area
			% of Unit Area

**Purpose of Burn:** Maintain plant health and growth and reduce competition by invasive plant species.

- Burn Objectives:**
- Reduce thatch levels
  - Promote early growth of desirable grass and forb species
  - Control undesirable and invasive plant species

Permits	Submittal Date	Receipt Date
Ohio Div. of Forestry Request for Waiver of ORC 1503.18	January 20, 2014	
Ohio EPA Open Burn Notification	January 20, 2014	

Smoke Sensitive Areas	Direction	Distance	Down Wind?
Crosby Elementary School	Southwest of site	~ 2.23 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Crosby Senior Center	Southwest of site	~ 2.84 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Morgan Elementary School	Northwest of site	~ 4.23 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
Elda Elementary School	Northeast of site	~ 2.79 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Ross Middle School	Northeast of site	~ 3.82 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Ross High School	Northeast of site	~ 3.73 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
St. John the Baptist School	Southeast of site	~ 3.52 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Colerain Township Senior Center	Southeast of site	~ 4.73 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Colerain Elementary	Southeast of site	~ 4.93 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
CSX Railroad Line	West of site	~ 0.68 mile	Yes <input type="checkbox"/> No <input type="checkbox"/>
State Route 126	North of site	~ 1.09 mile	Yes <input type="checkbox"/> No <input type="checkbox"/>
U.S. Hwy. 27	North of site	~ 2.92 miles	Yes <input type="checkbox"/> No <input type="checkbox"/>
State Route 128	East of site	~ 0.20 mile	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Interstate 275	South of site	~ 4.51 miles	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: South Field Prairie Burn Manager: Harold Swiger #2007019

Wind Factors		Acceptable Range	Predicted	Actual
Surface Winds	Speed	2 to 12 mph		
	Direction	East clockwise to South		
Transport Winds	Speed	>5 mph		
Minimum mixing height		1700 ft. to 6500 ft.		
Haines index		3 to 5		

Weather Factors		Acceptable Range	Predicted	Actual
Minimum relative humidity		30% to 55%		
Maximum temperature		40° F to 78° F		
Fine fuel moisture		6% to 20%		
Soil Moisture		>28% / >22%		
Soil Type		Clay / clay loam		

Fire Behavior		Acceptable Range	Actual
Type fire		flanking fire/circle fire	
Head-fire flame length		1.8 ft. to 22.6 ft.	
Head-fire rate of spread		16 ch/h to 365 ch/h	
Date of Burn		Feb. 17 – May 23, 2014	
Time of Burn		10:00 hrs. to 18:00 hrs.	

**Line of Responsibility**

Name of Crew Member	Responsibility	Report
Henry Becker		
Stephanie Bien		
Joey Bowles		
Ken Broberg		
Brian Dietz		
Cathy Glassmeyer		
Roger Grant		
Bill Gutzwiller		
John Homer		
Lisa McHenry		
Larry Oeffner		
Katie Payne		
Tim Sparks		
Scott Strickland		
Karen Voisard		
Jon Walters		
Phil Williams		
Chuck White		

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve Prescribed Fire Burn Plan (continued)**

Burn Name: South Field Prairie

Burn Manager: Harold Swiger

#2007019

Equipment
2 - Pump on Gator
4 - Backpack pumps
1 -Tank and pump on pick-up
Hand tools
2 - Drip torch

Location
Fireline around perimeter
Fireline around perimeter
Site Fire break on east flank
Fireline around perimeter
Within burn boundary

Crew Size
4 crew members
4 crew members
1 crew member
3 crew members
2 crew members

**Site Preparation/Fire Breaks:** A 15 ft. firebreak will be mowed from gravel road at well house to north and along the tree line to the south; then to west to gravel road at southern well house. Cut grasses will be raked to the inside of burn area. Gravel road will serve as a border; the west side of the gravel road will have a five foot swathe cut between the well houses; grasses can be allowed to remain in place.

A ten foot border will be cut around the wells and the grasses placed within the burn area. A 15 foot break will be mowed around the well houses and the grasses placed within the burn area.

**Site Restoration Work:** Evaluate the completeness and effectiveness of burn.

Apply herbicide spot application to any invasive plants (i.e., thistle, teasel, etc.) that may resprout after burn.

Stakeholders/Neighbors to Notify	Contact Number	Date	Time
Dorothy Nieman	Number on file		
Dave Nieman	Number on file		
Sandy Butterfield	Number on file		
Bill Knollman	Number on file		
Russ Beckner	Number on file		
Carl Summe	Number on file		
Ross Township Trustees	Number on file		
Crosby Township Trustees	Number on file		
Morgan Township Trustees	Number on file		
Northwest Schools Superintendent	Number on file		
Morgan-Ross Schools Superintendent	Number on file		
Tom Schneider, OEPA	Number on file		

U.S. Department of Energy Office of Legacy Management

Fernald Preserve Prescribed Fire Burn Plan (continued)

Burn Name: South Field Prairie Burn Manager: Harold Swiger #2007019

Emergency Contacts	Phone	Cell
Medical/Fire/Law Enforcement	911	
Stoller Site Manager	(513) 648-5294	(513) 910-6107
LM Site Manager	(513) 648-3148	(513) 910-4009

Contact List	Contact Number	Pre-Fire Date/Time	Post-Fire Date/Time
Hamilton County Sheriff's Office	(513) 825-2280	/	/
Butler County Sheriff's Office	(513) 785-1300	/	/
Crosby Township Fire Department	(513) 738-1831	/	/
Ross Fire Department	(513) 863-3410	/	/
Ross Police Department	(513) 863-2337	/	/
Ohio State Highway Patrol	(513) 863-4606	/	/

**Site Mop-Up:** Mop-up will consist of passing through fire area after fire is out and wetting down all smoldering and smoking debris.

**Final Fireline Condition:** \_\_\_\_\_

**Burn Manager:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_