



Native Landscaping, LLC

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Ver 2.0

SAMPLE PRESCRIBED BURN PLAN

1. LOCATION

Area Name: Sample Property
Physical Address: Iowa City, IA 52325
Burn Unit(s): Prairie Reconstruction
Map Location (e.g. T/R/Sec.): SW ¼, S 28, T79N, R06W
Burn Unit Acreage: 2.5 ac
County, State: Johnson, IA
Ownership: Private

2. EMERGENCY ASSISTANCE

Iowa City Police Dept. 319 356-5275
Johnson County Emergency Response Center (Dispatch) 319 356-6800
Medical – Hospital 911
Nearest Phone to Burn Unit (LO's phone)

3. PERMITS AND OFFICIAL NOTIFICATIONS

None.

4. NEIGHBOR NOTIFICATIONS

Name	Address	Phone
Notified by Property Owner		

5. BURN UNIT DESCRIPTION

Unit Name	Size	Vegetation Type	Fuel Model	% Slope	Aspect
Sample Prairie Restoration	2.5 ac	cool & warm season grasses and forbs	3	0-15	All

Summary (including surrounding fuels): Prairie restoration that was burned last year. Surrounding fuels consist of pasture, hay fields, woodland, and lawn.

6. FUELS DESCRIPTION

Unit Name	Top 3 Woody Spp. (spp/ht/avg BA/CC)*	Herbaceous spp. (% cool/warm/forbs)**	% Cured	% Green
Sample Prairie Restoration	Grey Dogwood Staghorn Sumac White Mulberry	40% forbs & 40% warm season grasses 20% cool season grasses	95%	5%

*spp=species, ht=height, avg BA=avg basal area, CC=percentage canopy cover ** % cool/warm/forb=percentage cool/warm season grasses & forbs

7. PRESCRIBED BURN JUSTIFICATION

Prairie reinvigoration/weed control.

8. WEATHER PRESCRIPTION

Weather Parameter	Acceptable Range	Forecast	Ignition
Air Temperature (F)	25 - 75	27 - 47	47
Relative Humidity (%)	25 - 60	34 - 65	34
Days Since Precip.	1 - 7	2	2
Wind Direction	E, W, & S	NE	NE
Wind Speed (mph)	5 - 15	9	9
Atmospheric Mixing Height (Ft)	2,000-10,000	6,200	6,200
20' Wind – AM (mph)	5 - 50	10	10
20' Wind – PM (mph)	5 - 40	10	10
Transport Wind (mph)	5 - 40	NE 10	NE 10
Smoke Dispersion	Fair - Excellent	Fair	Fair
Haines Index	2 - 5	4	4

9. FIRE BEHAVIOR NARRATIVE (Describe *desired* fire behavior. How will you manipulate fire behavior to meet management and control objectives?): The fire will back into the wind create black on the downwind side. When sufficient black is achieved the rest of the unit will be ringed. The fire will close in on itself creating a safe burning environment.

Firing techniques and ignition pattern:

We will begin at the furthest downwind point. A test fire will be lit to observe fire behavior. If OK to continue, backing fires will be lit along flanks creating a good anchor point. Flank and strip fires will be lit to ensure good black on the downwind side of the fire. Eventually the unit will be encircled and finished with a head fire. Unburned areas will be left as refugia. Alphabetic characters, on the burn map, indicate reference points, e.g., ignition and/or holding locations.

10. SMOKE MANAGEMENT PLAN (Describe desirable smoke behavior and smoke management actions.): Highway 218 (Hwy 218) is a major road corridor and is ¼ mile east of the burn unit. Burning with a west wind and/or inappropriate atmospheric conditions (unacceptable mixing height, transport wind, & temperature inversion) could lead to smoke drifting across this roadway and produce dangerous driving conditions. Burning when the wind is out of any direction other than the north should transport smoke safely way from the roadway.

Downwind/down drainage smoke sensitive areas:

Sensitive Area/Distance
1. Hwy 218

11. CREW ORGANIZATION

Name	Position	Cell Phone
Michael Fallon	Burn Boss	(319) 331-9543
Employee	Holding Crew Boss	
Employee	Squad Leader	
Employee	Burn Crew	
Employee	"	
Employee	"	
Employee	"	

12. EQUIPMENT

Item	Number
Portable 60 gal slip-on	1
Backpack pumps	1
Rake	1
Drip Torch	2
Extra fuel	1
2-way radios	2
Chain saw	0
Flapper	2
Shovel	0
Extra Water	2
Cell phone	1
Fuel & bar oil	0
Leaf blower	0
Weather Kit	1
First Aid Kit	1

Required: All persons required to wear: Nomex clothing or cotton pants and long-sleeved shirt, cotton undershirt and nonsynthetic fibered socks (wool or cotton), leather work gloves, leather work boots (not steel-toed), and a helmet. Bandannas recommended, but not necessary (smoke protection).

13. BURN DURATION TIME (hours)

Fireline Prep:	1.0
Spreading Fire:	1.0
Mop-up:	0.5
Total Duration:	2.5

14. FIRELINE

Category	Type	Location	Width (ft)
Primary	Firebreak	West boundary	1-50
Secondary	Driveway/Road	East and South boundary	15-25
Secondary	Woodland/Stream	West boundary	50
Secondary	Lawn	North boundary	50

15. COMMUNICATIONS & WEATHER MONITORING

Squad leaders and the Burn Boss will use hand-held walkie-talkies tuned to channel one (unless otherwise directed by the Burn Boss). The Burn Boss will monitor weather on a hand held weather radio. Burn operations will cease if unsafe weather conditions are encountered or expected.

16. SAFETY

Holding Area:

The Burn and Holding Crew Boss will conduct safety and observational patrols throughout the burn. Additionally, the Holding Crew Boss will be in constant communication with the Burn Boss.

Fire Sensitive Areas:

None.

Contingencies (safety zones, escape routes, secondary control lines, escape response procedures, etc.):

1. Fire Escape Suppression Plan

If fire escape a direct assault on the spot or escaped fire will be mounted using bladder bags, hand tools, 60 gallon portable tank, and ¾" hose. If direct assault fails, secondary firebreaks will be used. If secondary firebreaks fail, the Johnson County Emergency Response Center will be alerted.

2. Contingency Plan

The Burn Boss will determine escaped fire behavior, call for additional resources, and take the following actions:

- Cease all prescribed firing actions, where and when appropriate,
- Perform initial attack with available holding forces,
- Alert the Johnson County Emergency Response Center, and
- Ensure the safety of personnel and citizens, followed by private property.

Safety Zones & Escape Routes: Safety zones are both in the black and lawns. Escape Routes are into the black and lawns. In the case escape routes are used, burn crew should reassemble in the owner's front yard.

Potential Hazards (Description of any potential hazards & actions taken to reduce hazard potential):

None.

Mop-up: At the discretion of the Burn Boss, mop-up of the burn perimeter will commence shortly after ignition. Burn crew will extinguish burning fuels immediately adjacent to the fireline. Mop-up will continue until the possibility of escape or smoke management problems are eliminated.

Public Relations: Immediate neighbors have been alerted of the intent to burn.