

# Lost Horse Creek Incident Decision

Published 08/15/23 18:52

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# 1. Decision

# 1.1. Decision Summary

#### **Decision Information**

NAME	VALUE
Published	08/15/2023 18:52 CDT
Estimated Cost	\$20,000,000
Incident Owner(s)	Michael Butteri, Thomas St. Clair, Bradley Washa
Editor(s)	Christopher Friar, Jeremy Douse, lesley dewilde, Lynn Polacca, Robert Allen, Tim Hammond, William Hedman
Reviewer(s)	Peter Butteri, Bradley Washa, Christopher Friar, Sarah Saarloos, Thomas St. Clair
Approver(s)	Jeremy Douse, Lynn Polacca, Robert Allen, William Hedman
Natl Preparedness	
Level	3

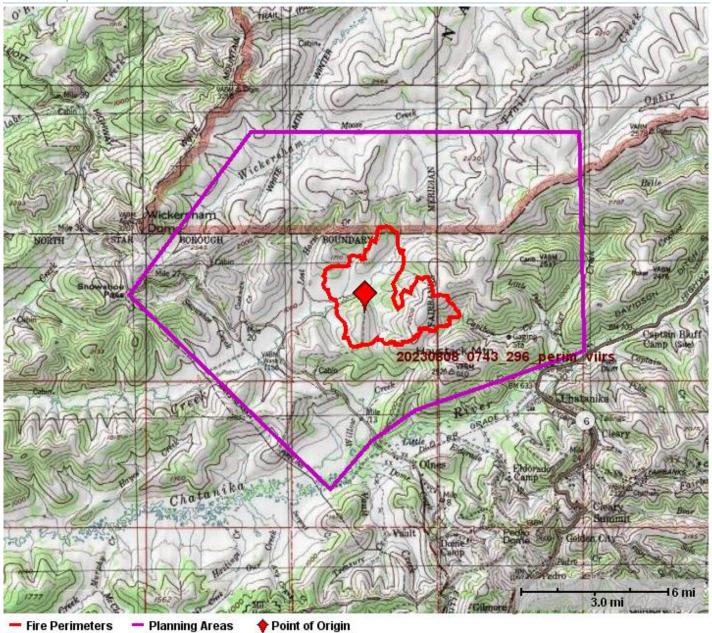
# Decision History

Editor Name	Action	Date (CDT)	Comment
Hedman, William	Published	08/15/2023 18:52	
Hedman, William	Approved	08/15/2023 18:52	
Douse, Jeremy	Approved	08/14/2023 13:23	
Friar, Christopher	Accepted	08/13/2023 11:04	
Friar, Christopher	Accepted	08/13/2023 11:01	
Friar, Christopher	Accepted	08/13/2023 10:59	
Friar, Christopher	Accepted	08/13/2023 10:59	
Allen, Robert	Approved	08/12/2023 21:51	
Polacca, Lynn	Approved	08/12/2023 20:27	
Butteri, Michael	Review Requested	08/12/2023 20:10	
Butteri, Michael	Review Requested	08/12/2023 20:09	Added course of action for limited direct actions and contingency lines. Modified the relative risk and organizational assessment language to reflect current situation. Upped the cost estimate to \$20m, and added new Rationale with history of incident.
Butteri, Michael	Created	08/11/2023 22:19	

# 1.2. Incident Information

Incident Information

NAME	VALUE
Incident Name	Lost Horse Creek
Unique Fire Identifier	2023-AKFAS-311296
Responsible Unit Name	Fairbanks Area
FireCode	QG23
P-Code	
Point of Origin	65.162222N / 147.746389 W
Incident Size	9,505acres
Latest WFDSS Perimeter Size	8,926acres
Incident Cause	Natural
Incident Type	Wildfire
Incident Discovery	07/28/2023 14:59
Contained	
Controlled	
Out	
Jurisdictional Unit	AKDNS - Alaska Department of Natural Resources
Jurisdictional Agency(s)	BIA/Tribal, BLM, State
Geographic Area (prep level)	Alaska (3)
Owner Name(s)	Michael Butteri, Thomas St. Clair, Bradley Washa



#### 1.3. Weather

#### Fire Weather Zone Forecast

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000
FNAK53 PAFG 122315
FWFAFG
Fire Weather Planning Forecast for Interior Alaska
National Weather Service Fairbanks AK
315 PM AKDT Sat Aug 12 2023
.DISCUSSION...
A thermal low pressure trough stretching from Eagle to Minchumina
will move to Old Crow to Galena on Sun, and then to Ambler to
Old Crow on Mon, then weaken in place on Tue. There will be isolated to
scattered showers and isolated PM thunderstorms along this trough
today through Tue. There will be widely scattered thunderstorms
southwest of McGrath and Nome through this evening.
High pressure north of the Arctic Coast combined with a strong low
in the Gulf of Alaska are creating windy conditions across much
of Alaska between the Brooks Range and Alaska Range this afternoon
that will taper off tonight. This is causing NE winds 15 mph
gusting to 30 mph between the Brooks Range and Alaska Range, and
east winds 20 mph gusting to 35 mph along the Tanana River from
Delta Junction west. These winds will taper off tonight.
An occluded front that lies over the AK Range will move to Denali
to Circle by 4pm Sun, then merge with the thermal trough over the
NE Interior on Sun night. Isolated to scattered showers will
accompany this feature. Very weak chinook conditions will blow
across the AK Range Sun into Mon but should only see south winds
20 mph gusting to 35 mph in Alaska Range passes with winds generally
of 10 mph or less north of Delta Junction and Healy.
RH is expected to remain above 35% for the next several days.
Westerly flow will develop over the Interior late next week
and will bring higher chances of rain and more seasonable temperatures
temps late next week.
AKZ222-131715-
Middle Tanana Valley-
Including the cities of Fairbanks, Fort Wainwright, Eielson AFB,
Ester, North Pole, Moose Creek, Two Rivers, Fox, Chatanika,
Chena Hot Springs, and Sourdough Camp
315 PM AKDT Sat Aug 12 2023
                                                 Sun Night
                      Tonight.
                                   Sun
                                                              Mon
Cloud cover
                      Mcldv
                                   Mcldv
                                                              Pcldv
                                                 Pcldv
Precip type
                                                              Tstms
                      Tstms
                                   Tstms
                                                 Tstms
Chance precip (%)
                      2.0
                                   30
                                                 30
                                                              40
                      39-49 (-4)
                                   63-73 (-4)
Temp (24h trend)
                                                 38-48
                                                              62-72
                      85-100 (-3)
                                   37-52 (0)
RH % (24h trend)
                                                 85-100
                                                              ABV 40
20ftWnd(mph)
                                   Lgt/Var
                      SE 8-12 G25
                                                              SW 4-8
                                                 Lqt/Var
CWR
                      10
                                   10
                                                 10
                                                              20
                                   2
                                                 2
T.A.T.
Remarks...Isolated PM thunderstorms today through Mon.
.FORECAST FOR DAYS 3 THROUGH 5...
.TUESDAY...Mostly cloudy. Scattered showers and isolated
thunderstorms. Areas of smoke. Lows 37 to 47. Highs 62 to 72.
West winds around 5 mph.
.WEDNESDAY...Mostly cloudy with scattered showers and slight
chance of thunderstorms. Lows 38 to 48. Highs 55 to 65. East
winds around 5 mph.
.THURSDAY...Mostly cloudy with scattered showers and slight
chance of thunderstorms. Lows 37 to 47. Highs 55 to 65. Southwest
winds around 10 mph.
$$
JB Aug 23
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# 1.4. Modeling

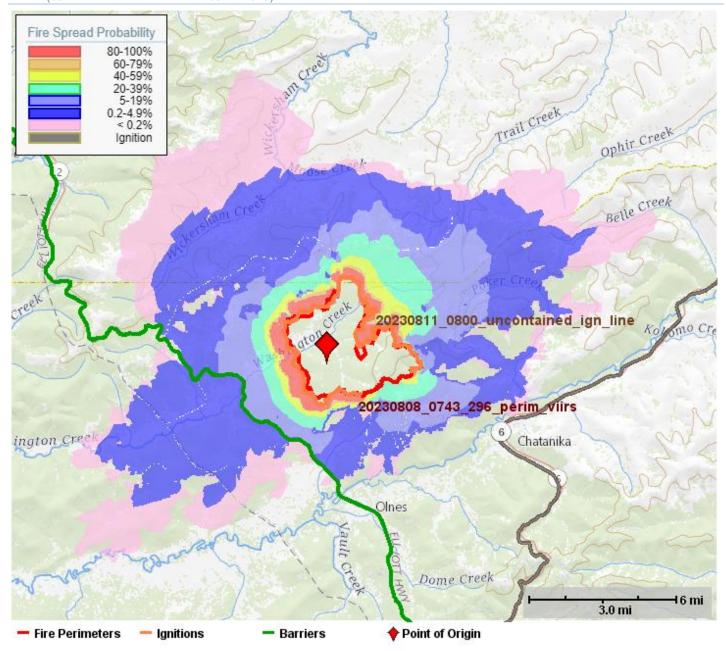
FSPro (0811 Fcst 7d 1kf - Started on 08-11-2023)

#### FSPro General Information

NAME	VALUE
Analysis Name	0811 Fcst 7d 1kf
Analysis Start	08/11/2023
Duration	7 days
Simulations	1000 fires

	Time (CDT)	User	Note
08/11/2023 14:27	Sorbel, Brian	This 7-day FSPro beginning 8/11 uses uncontained line as of 0800 8/11 as the ignition source. A 3-day forecast was used during the analysis period with forecast ERC values adjusted based on forecast FFMC/BUI values at Caribou Peak RAWS and Middle Fork PRAWS. 8/11 was a set as a no-burn day with 8/12 and 8/13 set at ERC values allowing a one and three hour burn period respectively. Automated NWS wind speed/direction values were not changed during the 3-day forecast period but were verified using the fire weather forecast in the 8/11 IAP. A 15-mph east wind was used on 8/12. The Elliott Hwy is the only barrier used in this analysis.	

FSPro Analysis '0811 Fcst 7d 1kf'



FSPro Long Term Analysis

#### 1.5. Risk

#### Relative Risk

NAME	VALUE
Relative Risk	Moderate
Duration	Moderate
Saved By	Butteri, Michael
Completed	08/12/2023 12:15 CD

#### **Relative Risk Notes**

Threats to the public and homes within the immediate vicinity of the fire are high. Fuels and fire behavior are in the very high range, and there is currently no end to the hot weather in the forecast. Potential for stronger winds as the current high pressure system breaks down. Mimimal fire history in the area between the fire and values at risk. Containment of fire has occurred where high values at risk are in close proximity of the fire. Fuels and fire behavior has moderated since the beginning of the incident with nearly .75" of precipitation on part of the fire.

#### **Values Notes**

Threat to the Haystack subdivision has subsided and evacuation order within the Haystack subdividion have been reduced to "Ready." Risk of fire reaching the Caribou Creek-Poker Flats Research Area have decreased. Risk of fire reaching the Alaska Native Allotments, the Elliott Highway and structures along the Elliott Highway remain a concern. Himilaya subdivision is 3.5 miles to the southwest. There are several Native allotments 2.5 miles to the southwest. There are The fire is within 3 miles of the Poker Flats Research Area, where significant study areas are at risk. To the North in the White Mountains Recreation Area there are multiple recreation cabins and trail systems. Social/Economic Concerns: Smoke from this fire is immediately visible to residents of the Haystack subdivision, Fairbanks, and surrounding communities.

Longer Term: Historic Chatanika Lodge- 8 miles east. Whitefish Campsite (a.k.a Lower Chatanika Rec Area)- 5 miles south, Olnes subdivision and Olnes recreation area - 7 miles south

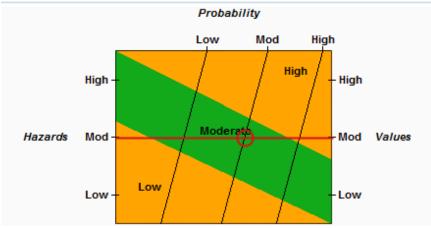
#### **Hazards Notes**

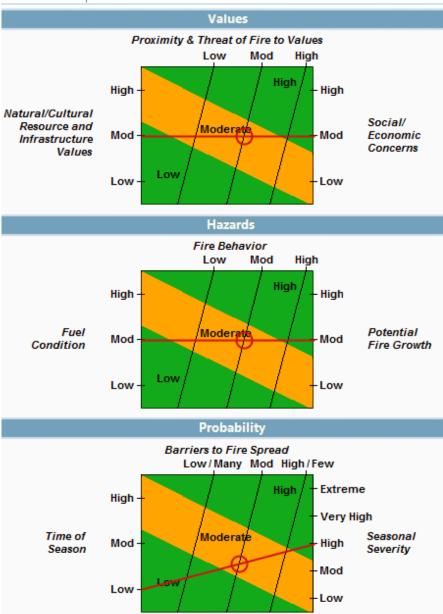
Precipitation throughout the summer has been spotty, and fuel conditions are unusually dry for August, after over a week of unseasonable hot weather. With upwards of .75" of precipitation over part of the fire, fuel conditions and fire behavior have moderate. Possible stronger winds in the forecast as southerly flow moves in. In the short and medium term, there is high potential for fire growth, but the majority of the typical Alaska season has passed, so the probability of long term growth is diminished.

#### **Probability Notes**

Though it is late in the typical Alaska fire season, there have been outlier years with no precipitation or season ending weather until September. The burning period is starting to shorten, though dry fuels and forecast for extremely hot weather into the foreseeable future could support large fire growth. Barriers to fire spread between the fire and values at risk are minimal The Elliot highway corridor, Haystack Fire scar (2021), Chatanika River, and fuel breaks around Himilaya subdivision and Haystack may provide some help. With the direct and indirect lines constructed, changes in vegetation, previously burned areas, along with the Elliott Highway, barriers to fire spread have increased.







Organization Assessment

NAME	VALUE
Unit Recommended Org	Type 2/CIMT
Saved By	Butteri, Michael
Completed	08/12/2023 20:06 CDT

#### **Organization Assessment Notes**

Due to number of needed resources and complexity of logistics and finance, high visibility, and the potential for point protection and suppression, a Type 2 IMT is the recommended organizational structure for this incident.

#### **Relative Risk Notes**

Threats to the public and homes within the immediate vicinity of the fire are high. Fuels and fire behavior are in the very high range, and there is currently no end to the hot weather in the forecast. Potential for stronger winds as the current high pressure system breaks down. Mimimal fire history in the area between the fire and values at risk. Containment of fire has occurred where high values at risk are in close proximity of the fire. Fuels and fire behavior has moderated since the beginning of the incident with nearly .75" of precipitation on part of the fire.

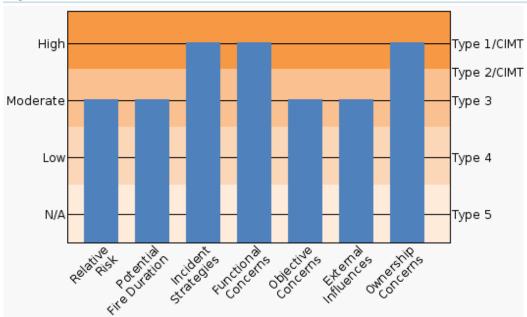
#### **Implementation Difficulty Notes**

Long term fire growth is still a concern. Logistics and Finance are two functions that are at high complexity due to number of resources. A combination of point protection and containment where feasible may be employed to meet protection objectives. Firefighting resources may be hard to get due to competition and fire danger in the Lower-48. Road systems and proximity to Fairbanks may reduce logistical complexity.

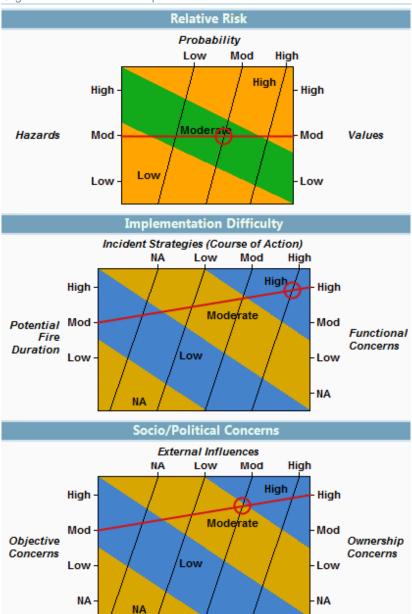
#### **Socio/Political Concerns Notes**

Due to the proximity of this fire to several Fairbanks North Star Borough (FNSB) subdivisions, and significant population, public interest will be high. The smoke column from this fire is visible from Fairbanks, and smoke may affect the air quality in the Fairbanks bowl and travel corridors.

#### Organization Assessment Chart



Unit Recommended Org:Type 2/CIMT



Planning Area Values Inventory Generated at 08/03/2023 00:51

Planning Area Name: 08/04/2023 12:50 Planning Area Size: 117,257 acres

Category	Value	Data Source	Currency	Coverage
BLM Buildings	2	BLM Branch of Architecture and Engineering	12/14/2021	National
Building Clusters: Fairbanks North Star, AK	no data	Various	Various	Available counties
Building Clusters: Yukon-Koyukuk, AK	no data	Various	Various	Available counties
County: Fairbanks North Star, AK	80,987 acres	US Census Bureau - TIGER	01/20/2022	National
County: Yukon-Koyukuk, AK	36,259 acres	US Census Bureau - TIGER	01/20/2022	National
Landowner Category: BIA	495 acres	WFMRDA	05/22/2022	National
Landowner Category: BLM	46,841 acres	WFMRDA	05/22/2022	National
Landowner Category: County	3,495 acres	WFMRDA	05/22/2022	National

Category	Value	Data Source	Currency	Coverage
Landowner Category: Private	3,944 acres	WFMRDA	05/22/2022	National
Landowner Category: State	62,518 acres	WFMRDA	05/22/2022	National
Natl Scenic Byways	13.8 miles	National Park Service	02/28/2019	National
Oil and Gas Pipelines	1.6 miles	HSIP Gold 2015	04/2015	National
Responsible Agency: BLM	35,896 acres	Various	03/15/2022	AK, CA, ID, MT, NM, MN
Responsible Agency: State	81,349 acres	Various	03/15/2022	AK, CA, ID, MT, NM, MN

#### Coverage of Values Queried that Produced No Results

BLM Horse and Burro (National), BLM Oil / Gas Leases (National), BLM Range Allotments (National), Campgrounds (National (BLM and USFS only)), Class 1 Airsheds (National), Communication Towers (National), Electric Power Plants (CONUS, AK, HI, Puerto Rico, Guam, N. Marian Islands, and US Virgin Islands), Electric Sub Stations (CONUS, Western Canada, AK, HI, Puerto Rico, Guam, N. Marian Islands, and US Virgin Islands), Est Ground Evac Time (CONUS), Habitat (National), IRA (National), Mines (National), NPS Buildings (50 States, DC, PR, and VI), NRA (National (CONUS, HI, AK)), Natl Historic Trails (National), Natl Recreation Trails (National), Natl Scenic Trails (National), Natl Wild Scenic Rivers (National), Other Areas (National (CONUS, HI, AK)), Ozone Non-Attainment (National), PODs: Acreage (Contiguous United States), PODs: Count (Contiguous United States), Particulates Non-Attainment (National), Protecting Unit (AK, CA, ID, MT, NM, MN), Roads (National), Sage Grouse Habitat (West and Midwest Regions of the US), TNC Lands (National), USFS Buildings (National), USFS Trails (CONUS, AK, PR), USFWS Trails (CONUS, AK, HI, PR), WSA (National), Wilderness (National)

# 1.6. Benefits

#### Benefits

Last updated by Michael Butteri on 08/03/2023 22:57



#### **Comments**

Fire on the landscape is not desired for resource, ecological or fuels related benefits in this planning area, though fire spread to areas where values are not threatened is an acceptable outcome.

# 1.7. Objectives

Incident FMU/Strategic Objective Code List

Unit	FMU/Strat Obj Code	Acres
AKAKA	AKAKA - Native Allotments	489
AKDNS	AKDNS	61,804
AKDTS	AKDTS	273
AKEID	AKEID - Eastern Interior Field Office	46,832
AKFAIM	AKFAIM	258
AKFNFX	AKFNFX	3,488
AKPRS	AKPRS	145
AKUAS	AKUAS	3,969

#### Spatial Fire Planning Inventory

Category	Value	Data Source	Currency	Coverage
AK Fire Mgmt Options: Critical	16,667 acres	BLM, USFWS	04/07/2023	Alaska Only
AK Fire Mgmt Options: Full	43,262 acres	BLM, USFWS	04/07/2023	Alaska Only
AK Fire Mgmt Options: Limited	48,161 acres	BLM, USFWS	04/07/2023	Alaska Only
AK Fire Mgmt Options: Modified	9,201 acres	BLM, USFWS	04/07/2023	Alaska Only
Mgmt Req: White Mountains RMP	46,781 acres	AKEID	Current	Unit Level

#### Incident Objective List

Activated	Incident Objective
08/04/2023	Firefighter and public safety will be the highest priority throughout all phases of the incident. Manage the risk to firefighters and the public by utilizing a risk-based approach to decision making. Ensure quality tradeoff conversations occur with Agency Administrators, partners, and stakeholders.
08/04/2023	Provide protection to residences and permitted structures within Haystack Subdivision, Himilaya Subdivision and along the Elliott and Steese Highway corridors.
08/04/2023	Provide protection to Native Allotments, research infrastructure within Caribou / Poker Flats LTER, and recreational cabins within the White Mountains Recreational Area.
08/04/2023	Minimize the impacts to travel on the Elliott and Steese Highways. Provide a safe travel corridor for travelers.
08/04/2023	Evaluate strategic options of utilizing direct and indirect suppression tactics combined with natural and manmade barriors to protect values.
08/04/2023	Provide fire information to the public and the media as fire conditions warrant. Prepare and dissemninate public information for media and local residents. Keep surrounding communities advised of smoke conditions and potential impacts.
08/04/2023	Provide initial attack for new fires within the assigned area.

#### Incident Requirement List

Activated	Incident Requirement
08/04/2023	Follow all agency policies on environmental protections and administrative processes.
08/04/2023	Coordinate closures and evacuations of Caribou-Poker Flats with UAF site manager
08/04/2023	Maintain and enhance relationships with local partners, cooperators, landowners and other stakeholders via timely information exchange.
08/04/2023	The statewide catalog of waters important for anadromous fish will be consulted prior to crossing any water body with vehicles or heavy equipment, and separate permit authority will be obtained from ADF&G Area Managers before crossing anadromous water bodies. Notify ADF&G in regards to water withdrawal during wildland fire suppression activity.
08/04/2023	Heavy equipment use may be authorized on state lands. Use will follow the heavy equipment policy for wildland fire suppression march 2014 for the department of natural resources. Provide documentation of use to the state DNR.
08/04/2023	Avoid water withdrawal from waterbodies with known infestations of invasive species. The Chena River and Chena Lakes are known to harbor Elodea and should not be used as water sources.
08/04/2023	Ensure financial and documentation packages are prepared in accordance with agency requirements and agreements are closed out when no longer necessary.

Activated	Incident Requirement
08/04/2023	Implement tactics in a manner that are cost effective and fiscally responsible. Manage incident costs commensurate with values at risk through the use of appropriate, effective, and where possible, local resources.
08/04/2023	Support areas such as camps, staging areas, and helibases will not be located on Native Allotments. Resources such as firewood will not be removed from a Native Allotment without an approved agreement prepared by BIA or Tanana Chiefs.
08/04/2023	Protect natural and cultural resources of Federal, State and Local interest by engaging agency resource advisors, partners and community stakeholders in effective communication and planning. Limit long term impacts from suppression actions.
08/04/2023	Protect lakes, streams and wetlands from fire suppression, retardants, foams, chemicals and petroleum products: Use containment dikes and absorbents at portable pumps, fuel storage and fuel transfer sites; properly store and dispose of all contaminated containment materials, absorbents and rags from the fire; report all spills to the land manager.

# Strategic Objective List

I India	Ol /FN411	A -4541	Objects and a Object to a
Unit	Shape/FMU	Activated	Strategic Objective
	AK Fire Mgmt Options	04/24/2019	AlWFMP Full Fire Management Option  The default initial action is to mobilize resources to protect the area and/or sites and suppress the fire without compromising public or firefighter safety. Initial action priorities are to:  1. Protect human life. 2. Protect qualifying sites and natural resources from damage by wildfire. 3. Contain fires at the smallest acreage reasonably possible in order to limit short and long-term threats to values.
	AK Fire Mgmt Options	04/24/2019	AlWFMP Critical Fire Management Option The default initial action is to mobilize resources to protect the area and/or sites and suppress the fire without compromising public or firefighter safety. Initial action priorities are to:  1. Protect human life. 2. Protect qualifying sites and natural resources from damage by wildfire. 3. Contain fires at the smallest acreage reasonably possible in order to limit short and long-term threats to values.
	AK Fire Mgmt Options	04/24/2019	AlWFMP Modified Fire Management Option Prior to the conversion date, the default initial action is to mobilize resources to protect the area and/or sites and suppress the fire without compromising public or firefighter safety.Preconversion initial action priorities are to:  1. Protect human life. 2. Protect qualifying sites and natural resources from damage by wildfire. 3. Contain fires in order to limit short and long-term threats to values.  After the conversion date, the default initial action is to conduct surveillance, assessment, and site protection as warranted. Post-conversion initial action priorities are to:
			<ol> <li>Protect human life.</li> <li>Protect qualifying sites and natural resources from damage by wildfire.</li> <li>Allow fires to burn naturally to the extent possible in order to protect, maintain, and enhance natural and cultural resources and maintain natural fire regimes.</li> </ol>
	AK Fire Mgmt Options	04/24/2019	AlWFMP Limited Fire Management Option  The default initial action is to assess the fire's potential to affect neighboring values, and conduct surveillance and site protection as warranted. Initial action priorities are to:  1. Protect human life. 2. Protect qualifying sites and natural resources from damage by wildfire. 3. Allow fires to burn naturally to the extent possible in order to protect, maintain, and enhance natural and cultural resources and maintain natural fire regimes.
AKAKA	<unit></unit>	07/02/2015	Protect Native Allotments from fire and suppression activity impacts.

# Management Requirement List

Unit	Shape/ FMU	Activated	Management Requirement
	AK Fire Mgmt Options	07/10/2023	Alaska Interagency Wildfire Management Plan Statewide Management Requirements

Unit	Shape/ FMU	Activated	Management Requirement
· · · · ·		7 10 11 7 11 10 11	AIWFMP Statewide Management Requirements
			<ul> <li>Weigh the cost and environmental impacts of suppression actions against the economic, social, and/or resource values warranting protection. Consider risk to firefighters and the public in all fire management decisions.</li> <li>To the extent possible, minimum impact suppression tactics should be used. Firelines will be constructed in a manner that minimizes erosion and will follow natural contours wherever possible. Indirect attack will be used to the extent practical. A suppression repair plan for wildfire suppression activity damage, as approved by the Jurisdictional Agency(ies), must be completed before the final demobilization occurs.</li> <li>Locate base camps, spike camps, staging areas, helispots, and other incident support areas in natural clearings if possible and minimize their visible footprint consistent with operational need and safety requirements. Make Jurisdictional Agencies aware of all support areas located on their lands. Keep these areas clean so as not to attract animals and ensure all unused supplies including fuel, oil, food, etc. are removed prior to demobilization of the incident. Exceptions must be explicitly authorized by the Jurisdictional Agency.</li> <li>Support areas on private lands or Native Allotments require a land use agreement. No resources (e.g., firewood, etc.) will be removed from private lands or Native Allotments without an approved agreement. Agreements involving Native Allotments must be prepared by the BIA or the local BIA service provider.</li> <li>The use of tracked or off-road vehicles requires approval by the Jurisdictional Agency(ies) prior to use.</li> <li>When withdrawing water from a fish-bearing stream with portable pumps, scooper aircraft, or aerial buckets; or when crossing it with a vehicle or heavy equipment, comply with the stipulations and notification requirements in the ADF&amp;G statewide <i>Fish Habitat Permit FH20-SW-0001 Amendment 3</i>.</li> <li>If a game animal is killed in defense of life or property (DLP) on an incident, an Alaska Department</li></ul>
	AK Fire Mgmt Options	07/10/2023	Alaska Interagency Wildfire Management Plan Statewide Management Requirements
			<b>AIWFMP Statewide Management Requirements (continued)</b>
			<ul> <li>Application of aerial fire retardant near lakes, wetlands, streams, rivers, and sources of human water consumption or areas adjacent to water sources should be avoided. A minimum of 300 feet is identified in the <i>Interagency Standards for Fire and Fire Aviation Operations</i> (Red Book). Individual Jurisdictional Agencies may have more restrictive retardant use guidelines.</li> <li>Suppression activities including flight patterns on or near cultural sites or sites designated as "Avoid" must be coordinated with the Jurisdictional Agency.</li> <li>Jurisdictional Agencies should be consulted concerning any operational restrictions in designated wilderness areas.</li> <li>Jurisdictional Agencies will communicate planned fuels treatment locations to incident management organizations for consideration when locating firelines.</li> <li>Structure protection (not suppression) activities by wildland firefighters will be limited to exterior efforts, and only when such actions can be accomplished safely and in accordance with agency policy and established wildland fire operations standards.</li> <li>Wildland firefighters will not take direct suppression action on vehicle fires. Suppression efforts on vehicle fires by wildland firefighters will be limited to preventing spread into the wildlands and will be undertaken only if responders can avoid being exposed to the smoke from the burning vehicle.</li> </ul>

Unit	Shape/ FMU	Activated	Management Requirement	
			<ul> <li>Wildland firefighters will not take direct action on fires within landfills. Suppression actions will be limited to preventing spread into the wildlands and will be undertaken only if responders can avoid being exposed to the smoke from the landfill. Protecting Agencies will notify the ADEC Solid Waste Program of all fires that escape from landfills or that have a high potential to escape.</li> <li>Any discovery by firefighters of potential unexploded ordnance (UXO) or other potentially hazardous materials (e.g., mining sites, etc.) will be immediately reported through proper channels. Firefighters will remain clear of the area until the threat has been evaluated and mitigated.</li> </ul>	
AKAKA	<unit></unit>	07/13/2015	Provide BIA and/or compact provider with documentation of impacts to Native Allotments caused by fire or fire suppression actions.	
AKAKA	<unit></unit>	07/13/2015	Ensure BIA and/or compact provider is kept informed regarding strategy, risks, and progress on incidents involving Native Allotments.	
AKAKA	<unit></unit>	07/09/2020	Native Allotments fall under the jurisdiction of the Bureau of Indian Affairs. Titles to these land parcels are held by individual or groups of Native Alaskans. The lands are very similar to private land, but have a restricted status. The restricted status is the same as trust status except that the title is held by the Allotee with restrictions against taxation and alienation. It means that the Federal Government is responsible for maintaining these lands in perpetuity for their Native owners. Protecting Native Allotments and the Trust Resources on the Allotments from wildland fire and wildland fire suppression impacts is a part of the Federal Government's maintenance trust responsibility.	
AKEID	White Mountains RMP	07/01/2017	White Mountains Record of Decision and Approved Resource Management Plan (2016):  *Goals Related to Wildland Fire IncidentsProtection of human life is the single overriding priority. Other priorities are based on the values to be protected, human health and safety, and the costs of protectionRespond to all wildfires, with an emphasis on firefighter and public safety, and ensure that costs are commensurate with the values to be protectedUse wildland fire, and other treatments to maintain or restore ecological systems and to meet land use and resource management objectivesPrevent human caused wildfiresReduce risk and costs of wildfire by managing wild fires to meet resource objectives and implementation of fuels management projectsReduce adverse effects of wildland fire management activitiesIdentify, preserve and protect significant cultural resources by a variety of means; including site avoidance or conservation, site stabilization, monitoring, public awareness programs, and/or data recovery to ensure that these resources are available for appropriate uses by present and future generations	
AKEID	White Mountains RMP	07/01/2017	White Mountains Record of Decision and Approved Resource Management Plan (2016): *Decisions Relating to Wildland Fire Incidents:  -Implement interagency wildland fire smoke effects mitigation measures adopted by the Alaska Wildland Fire Coordinating Group. Consider smoke effects on human health, communities, recreation, and tourism in all wildland and prescribed fire management activities.  -Manage wildland fire to achieve natural fire regimes and ecosystem processes dependent upon fire. Use prescribed fire in select areas to improve wildlife habitat.  -In response to shifting fire regimes resulting from climate change, fire management may be implemented to achieve wildlife habitat objectives (e.g., meeting habitat needs for subsistence species) or to facilitate ecosystem adaptation to climate change (e.g., addressing spread of invasive plants).  -All firelines will be rehabilitated and closed to OHV use to facilitate revegetation. Rehabilitate firelines by spreading original soil and vegetation on the disturbed ground, except in specific circumstances where seeding or planting may be necessary. Protect vegetation from damage caused by summer OHV use. In specific circumstances where firelines are routed and constructed so that they meet pre-determined travel management needs and maintain resource values, the AO may determine that an exception is appropriate and retain suitable firelines as OHV or snowmobile routes. Fire lines built on existing roads or OHV trails will be returned to conditions suitable for original use.  -Manage lichen-rich plant communities as high value habitats due to the slow growth potential of lichen and its great importance to caribou.  -Minimize impacts to known nesting sites of priority raptors from actions authorized by the BLM. Priority raptor species are peregrine falcon, gyrfalcon, bald eagle and golden eagle. Specific SOPs applicable to priority raptor habitats are listed in Appendix A Standard Operating Procedures and Fluid Mineral Leasing Stipulations. All priority raptor SOPs m	

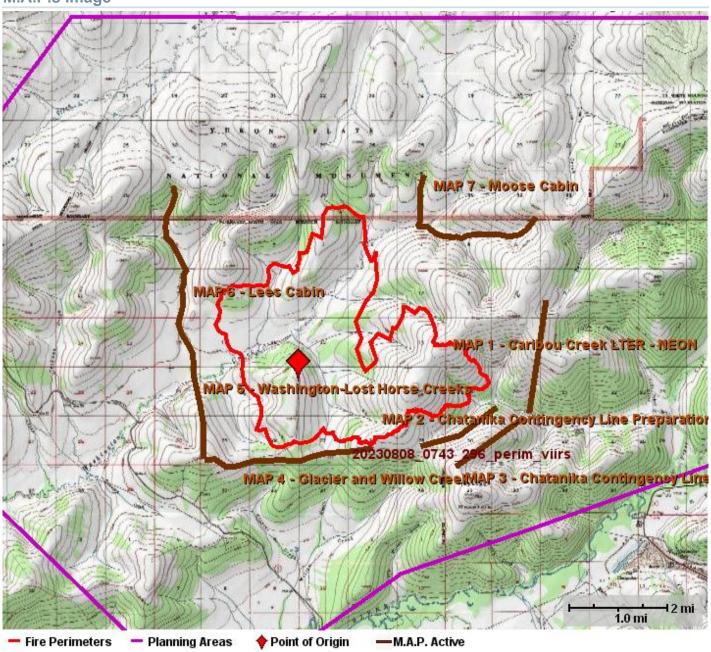
Unit	Shape/ FMU	Activated	Management Requirement
			although management would generally be less restrictive and would be determined in site- specific environmental analyses.
AKEID	White Mountains RMP	07/18/2017	White Mountains Record of Decision and Approved Resource Management Plan (2016):  *Standard Operating Procedures- These Standard Operating Procedures are implementation level actions. They may be modified through site-specific analysis of subsequent authorizations, but still must meet the goals and objectives of the Approved RMP. Standard Operating Procedures will continue to evolve as better resource information is gained and/or changes in technology become available.  Modifications to Standard Operating Procedures may be appropriate if other measures are taken to protect resources that would result in the same or reduced impact. The following SOPs relate to Wildland Fire Incidents:  -Where practicable and feasible, avoid disturbance of the vegetative mat and permafrost soil areas.  -Fire management actions, including prescribed fire operations, wildland fire suppression and fire rehabilitation efforts, will protect burned and adjacent areas from the introduction and spread of non-native invasive plants. Protection may include the use of washing stations with a containment system.  -The BLM will not be held responsible for protection of permittees' structures or their personal property from wildland fire. It is the responsibility of permittees and lessees to mitigate and minimize risk to their personal property and structures from wildland fire, following the conditions in their permit.  -Gas-powered equipment must be equipped with manufacturer approved and functional spark arrestors.  -To avoid the potential impacts to aquatic life, the application of fire chemicals including retardant will be avoided within 300 feet of waterbodies. Deviations are acceptable when life or property is threatened and fire chemicals reasonably expected to alleviate the threat. The AO may approve a deviation if potential damage to natural resources outweighs the impact to aquatic resources.  -To the extent practicable, select the location for incident bases, camps, helibases, and so on to avoid riparian areas.  -Authorized human a

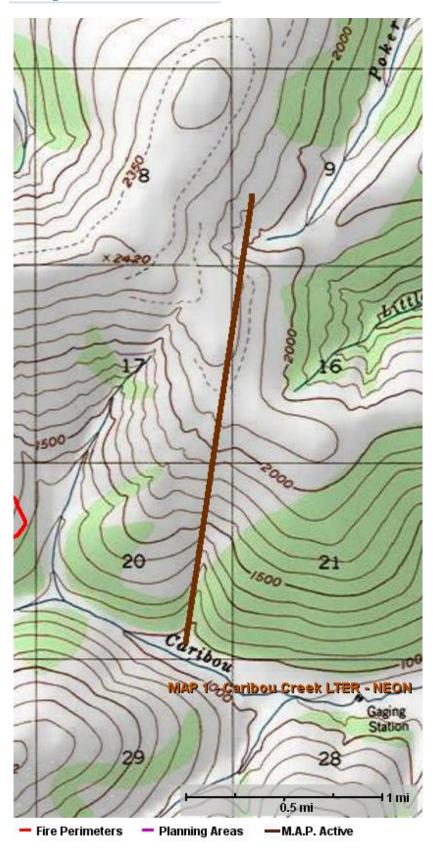
# 1.8. Course of Action

#### Course of Action

Active	Inactive	Action Item
08/04/2023		Utilize appropriate fire strategies to minimize fire impacts on residences, commercial properties, and critical community infrastructure to reduce the potential for adverse health, social, financial, and economic hardships. These include:  If additional values are identified, they should be passed along to the DOF Fire Management Officer for protection priorization.
		<ul> <li>Haystack subdivision</li> <li>Himilaya subdivision</li> <li>Native allotments</li> <li>Poker Flats Research Area</li> <li>White Mountains Recreation Area cabins</li> <li>Historic Chatanika Lodge- 8 miles east.</li> <li>Whitefish Campsite (a.k.a Lower Chatanika Rec Area)</li> <li>Olnes subdivision and Olnes recreation area</li> <li>Additional permmited structures within the planning area</li> </ul>
08/04/2023		Protect Native allotments within the planning area from fire impacts and suppression impacts. Coordinate with the BIA Fire Management Officer for specific allotment questions and concerns.
08/04/2023		Coordinate evacuation planning for all residential areas within the Fairbanks North Star Borough with the FNSB Emergency Operations Manager.
08/04/2023		Coordinate Steese-White Mountains trail and cabin closures and evacuations with the BLM / Eastern Interior Field Office Manager or representative. Cost of protecting Steese/White Mountain cabins should not exceed replacement cost (~\$100,000). Coordinate with the Field Office on particular structures.
08/04/2023		Coordinate with Golden Valley Electric Association to facilitate deactivation, repair and reactivation of powerlines.
08/15/2023		Appropriate resources are currently available to implement planned action and reduce the overall fire size and risk of impacting values to the south. Secure fire perimeter on southwest portion of the fire within the Washington Creek drainage to limit fire spread towards the Elliott Highway and Native allotments.
08/15/2023		Complete the Cushman Ridge indirect line, thus reducing the potential need to close down the Elliott Highway and minimize the impact to structures between milemarker 20 and 24.
08/15/2023		In coordiation with READs and utilizing the appropriate tools, complete Chatakinia contingency line, to create a defensible boundary if the fire escapes current control lines.

# M.A.P.s Image





NAME	VALUE
Incident Na	me Lost Horse Creek
Cost	\$7,675
Shape	Caribou Creek LTER - NEON

Activated	08/15/2023	
Deactivated		
Status	Active	

#### Condition

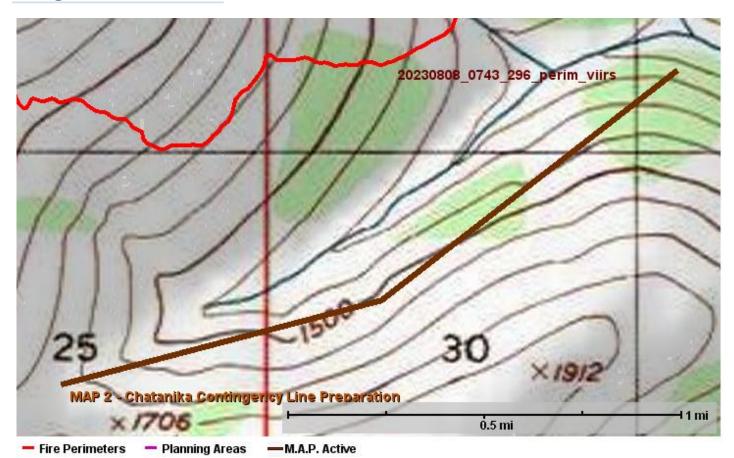
Caribou Creek Long Term Ecological Research Area - Includes the National Ecological Observation Network (NEON) Site Condition - Fire progresses east beyond the 2021 Haystack Fire and establishes itself into the Caribou Creek drainage.

#### **Actions**

- Up to 30 researchers independently working in watershed on any given day and site will need to be evacuated to ensure the safety of the public.
- One building and tower with various sensors may require some structure protection.
- · Monitoring sites/plots run throughout watershed.
- Ground disturbing suppression actions within the LTER should be minimal.
- · Contact University of Alaska Fairbanks on threat

#### Resources

- 1 STEN/TFLD
- 2 T6 Engines
- · 2 Pumps, 2 water tanks, and water handling equipment including 2 sprinkler kits and 40 gallons of premix fue



NAME	VALUE
Incident Name	e Lost Horse Creek
Cost	\$161,750
Shape	Chatanika Contingency Line Preparation
Activated	08/15/2023
Deactivated	
Status	Active

#### Condition

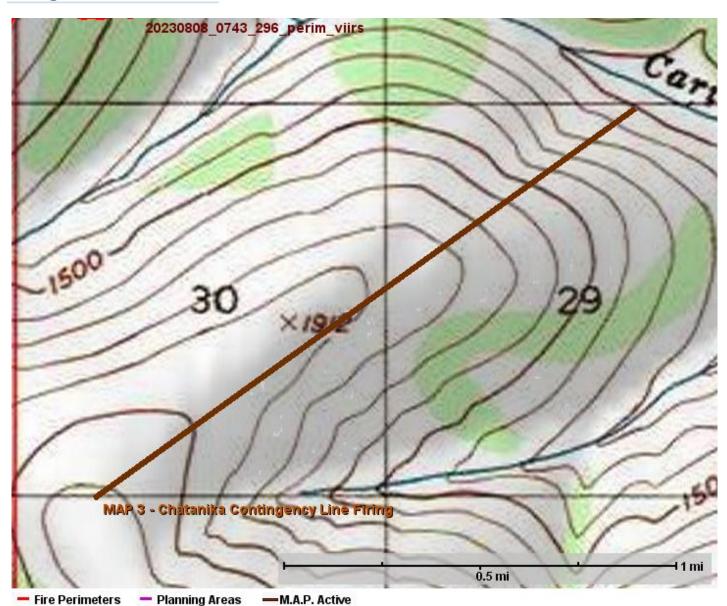
Fire is established on the southeast aspect of the ridge that runs through Sections 30 and 29 and is resistant to suppression operations.

#### **Actions**

- · Complete dozer line within area previously masticated east of Haystack Mountain to Chatanika River
- · Plumb hose lay along completed dozer line
- Stage necessary supplies for Chatanika Contingency Firing
- Recommend Evacuation Level "GO" for Haystack area
  Operational Coordination Liaison Officer to interface with Fairbanks Norths Star Borough and Alaska State Troopers regarding recommended evacuation levels

#### Resources

- 1 DIVS
- 1TFLD
- 1 HEQB
- 2 DOZ2
- 1 IHC
- · 2 T2 Handcrews
- Supplies 6 Mile hose kit, 12 Fold-a-tanks, 8 Mark III Pumps w/kits, 120 gallons premix fuel



NAME	VALUE	
Incident Name Lost Horse Creek		
Cost	\$998,600	
Shape	Chatanika Contingency Line Firing	
Activated	08/15/2023	
Deactivated		
Status	Active	

#### Condition

Fire is established on the southeast aspect of the ridge that runs through Sections 30 and 29 and is resistant to suppression operations.

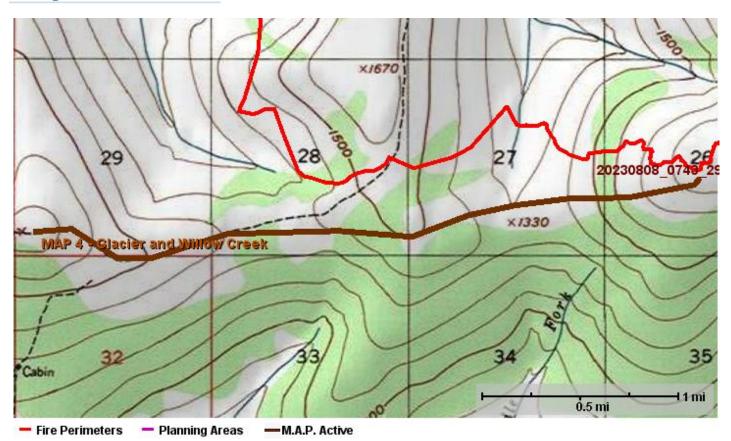
#### **Actions**

- Ignition operations will occur along the Chatanika Ridge based on current and forecasted weather and fire behavior to reduce opportunity for fire to become established south of the ridge and potentially impacting the Haystack development along Leuthold Drive.
- The intent is to back fire off of Chatanika Ridge down into Caribou Creek.
  South side of the line may be pretreated with aerial retardant.

- Operational Coordination Liason Officer to interface with Fairbanks North Star Borough, Alaska State Troopers and Golden Valley Electric Coop (local power utility company) to coordinate efforts in providing safety to firefighters and public.
   Emphasis placed on public evacuations, road control/closure, and power line safety.
   Recommendation to Fairbanks Northstar Borough would be for continuation of the "GO" evacuation order.

#### Resources

- 1 TFLD
- 2 IHC
- 3 T2 Handcrews
- · 2 Task Forces of Engines
- · 2 Water Tenders
- 1 DOZ2
- · Supplies 30 Drip torches, 200 Gallons drip torch mix, 6 Very pistols w/rounds and flares
- · Aerial retardant/water support



NAME	VALUE	
Incident Name Lost Horse Creek		
Cost	\$924,452	
Shape	Glacier and Willow Creek	
Activated	08/15/2023	
Deactivated		
Status	Active	

#### Condition

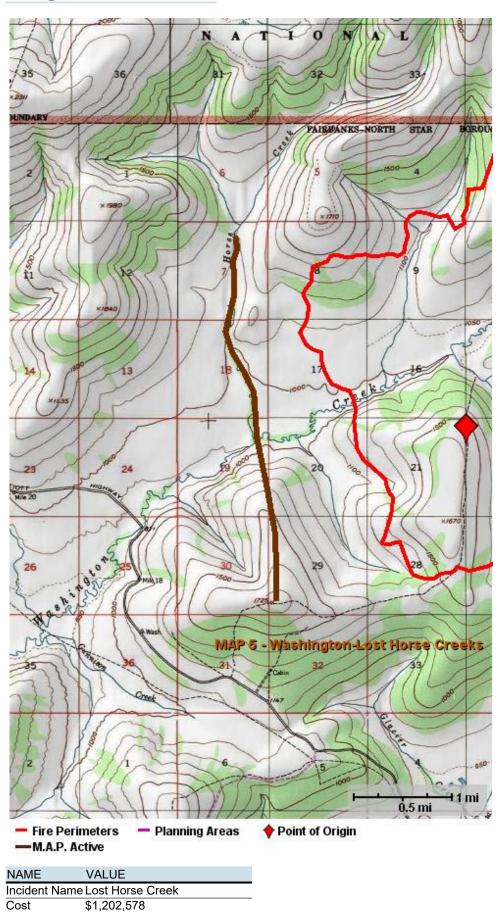
If fire becomes established and direct control measures are unsuccessful in the hardwood stand along the southern portion of 26 and 27, or the spruce stand along the southern portion of section 28.

#### **Actions**

- Assess fire behavior before firing as indirect line is in large timber and hardwoods and ignition may not consume material to meet objectives of the MAP.
- It is believed the masticated line would hold without the need for additional dozer line. Complete any additional dozer line as necessary.
- Plumb hose lay along completed mastication line (supplies are staged at Haystack Staging).
- · Stage necessary supplies for firing along dozer line.

#### Resources

- 1 TFLD
- 2 IHC
- 2 T2 Handcrews
- · 2 Task Forces of Engines
- 1 DOZ2
- 1 UAS Moule with PSD/IR Capable Platform
- Supplies 50 gallons of drip mix, 10 drip torches, 1000 PSD Balls, ethyl glycol
- Aerial retardant/water support



Washington-Lost Horse Creeks

Shape

Activated	08/15/2023
Deactivated	
Status	Active

#### Condition

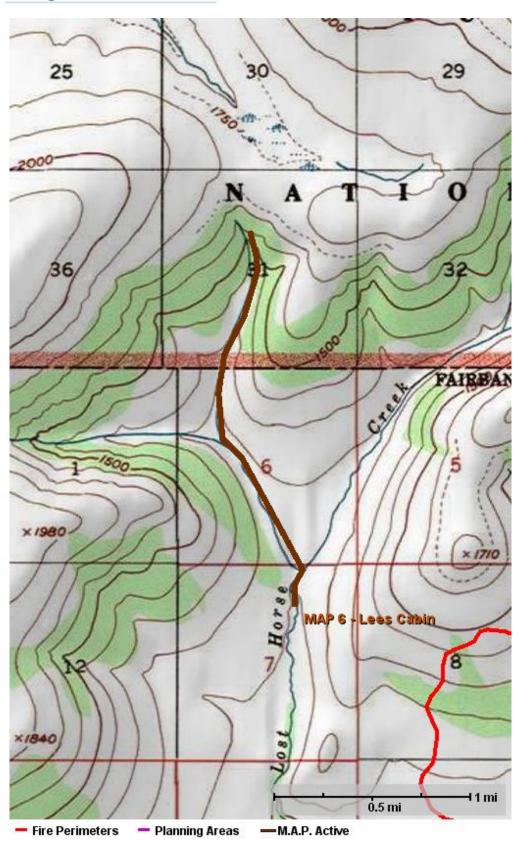
Fire becomes established west of Lost Horse Creek and west of the unnamed ridge south of Washington Creek at the confluence of where Lost Horse Creek comes into Washington Creek.

#### **Actions**

- Initiate a firing operation that would require a task force to be in place at the Alaska Native allotments on the Elliot Highway and continue up the road to Cushman Creek.
- Fire would be brought to the Elliott Highway and taken down to Washington Creek where we would attempt to halt firing operations and hold fire along the creek using aircraft, likely without retardant due to the creek.
- If unsuccessful, would need to have a holding line established on the ridge above Cushman Creek to the east where further westward progression could be limited.

#### Resources

- 2 STEN/TFLD
- 1 IHC
- · 2-3 T2 IA Crews
- · 2 T6 Engines
- · 4 Water tenders
- · 1 Engine Task Force for holding and structure protection along the Elliott Highway
- 1 UAS Module with PSD/IR Capable Platform
- Supplies 100 gallons of drip mix, 10 drip torches, 1000 PSD Balls, ethyl glycol
- Aerial retardant/water support



NAME	VALUE
Incident Name	Lost Horse Creek
Cost	\$1,300
Shape	Lees Cabin
Activated	08/15/2023

Deactivated		
Status	Active	

#### Condition

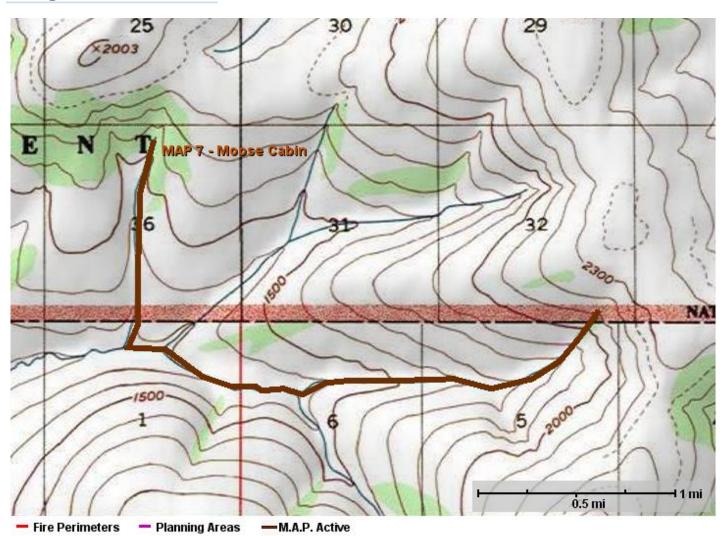
Fire becomes established west of the Lost Horse Creek and has potential to impact Lee's Cabin above Cushman Creek.

#### **Actions**

- · Lee's Cabin has been evacuated and structure protection measures have occurred around the cabin.
- If MAP is reached, cabin should be checked to insure structure wrap is still in place and functional and that public has not returned to the cabin.
- Cabin can be reached on foot via the Trail Creek Trail or by landing a helicopter at helispot adjacent to the cabin.
  Contact the Fairbanks District Bureau of Land Management Fire Management Officer of impending threat to cabin.

#### Resources

• 2 FFT1 or higher qualified



VALUE		
Incident Name Lost Horse Creek		
\$1,300		
Moose Cabin		
08/15/2023		
Active		

#### Condition

Fire becomes established north of where Washington Creek drains below the cabin and would be positioned to impact the Moose Cabin.

#### **Actions**

- · Moose Cabin has been evacuated and structure protection measures have occurred around the cabin.
- If MAP is reached, cabin should be checked to insure structure wrap is still in place and functional and that public has not returned to the cabin.
- Cabin can be reached on foot via the Trail Creek Trail or by landing a helicopter at helispot adjacent to the cabin.
- Contact Fairbanks District Bureau of Land Management Fire Management Officer of impending threat to cabin.

#### Resources

· 2 FFT1 or higher qualified

# 1.9. Cost

**Estimated Final Cost** 

NAME	VALUE
<b>Estimated Final Cost</b>	\$20,000,000
Method(s) Used	Historic Costs

#### **Comments**

This cost estimate includes the duration of the IMT (current burn rate ~500k/day), aviation costs which have not yet been captured, and the cost of fireline suppression repair.

#### 1.10. Rationale

#### Lost Horse Creek Rationale

The Lost Horse Creek fire was ignited by lightning on DNR lands in a Modified protection area on 7/28, after the conversion date & so was treated as a 'limited' fire and monitored. After a week of unusually hot and dry weather with the forecast for continued unseasonably warm and dry weather, DNR Agency Administrators chose to take suppression action on the fire on 8/2 in order limit possible threat to Haystack Subdivision and other values within the area. Due to a shortage of resources due to competing fires, aerial water drops were conducted in order to limit spread while ground forces could get into place. Fire behavior and westerly winds caused the fire to move rapidly to the east, which necessitated level 2 and 3 evacuation orders for parts of Haystack Subdivision. The planning area for the fire is primarily DNR managed lands, but also included BLM lands to the North (White Mountains NRA) and BIA managed lands to the south (several native allotements). A type 2 IMT (Alaska Green Type 2 IMT) was ordered to manage the incident, with a combination of point protection, indirect and direct attack strategies. The fire continued to grow, mainly towards the north and west, and to date a small portion of the fire is on BLM lands to the north. Cooler weather and some precipitation have moderated fire danger, but have not eliminated the danger of the fire threatening values in the future. During a strategy meeting with AAs that took place on 8/11, it was decided that continued direct attack along the southern and western portions of the fire, while improving indirect contingency lines was the best course of action. The original decision estimated cost of \$4.5 million was close to being reached, and so a new estimate to capture the duration of the fire including suppression repair has been added, with some course of action language stemming from the strategy meeting. A new decision should be considered if contingency lines threaten to be breached in the future, which at this point is a low probability event.