WIND CAVE NATIONAL PARK JOB HAZARD ANALYSIS FORM

JOB TITLE: Off-trail caving DATE OF ANALYSIS: 08/22/12

REQUIRED EQUIPMENT & TOOLS FOR JOB:	REQUIRED SAFETY EQUIPMENT:
* gloves	* UIAA approved helmet with four-point suspension chin strap
* side-mounted pack	* knee/elbow pads
* watch	* well-treaded hiking shoes or boots
* three independent light sources (two helmet mountable)	* adequate drinking water
* extra batteries	* adequate energy food supply
	* cave map/line plot

POTENTIAL HAZARDS:	SAFETY PROCEEDURES:
Special hazards of Wind Cave	* The upper levels of the cave tend to be crumbly- be sure of holds when climbing * When in the lower levels, be aware of false floors
Unprepared / Lost	* Have maps/line plots and study intended route * Identify hazards along the route * Inspect and test equipment before using. Be sure all equipment is adequate for the cave trip * Stick to planned route * Include all potential areas/surveys that will be visited on the trip permit
Overdue party/Late	* Complete a Trip Permit before entering the cave, have it in the required place * Establish a surface watch (be sure they have emergency phone numbers) * Allow reasonable amount of time to leave cave by set exit time
Exertion/exhaustion	* Recommend proper physical conditioning. * Quick energy foods should be consumed to keep up with calorie utilization * Sufficient water should be consumed to prevent dehydration * Avoid overexertion, the group should pace itself for the slowest member
Unstable rocks	* Be extra cautious on breakdown piles, especially in areas rarely or never before visited * Climb one at a time * Yell "ROCK"! if you dislodge a rock
Exposure	* Use a handline if anyone in the party feels uncomfortable with a climb * Maintain three points of contact at all times and inspect all hand and footholds before trusting them *Use a spotter for unskilled climbers
Slippery surfaces	* Be sure your boots have adequate tread on the soles *Slow travel speed when in a slippery area
Tight squeezes	* Tight squeezes should only be attempted by experienced cavers that know their limits