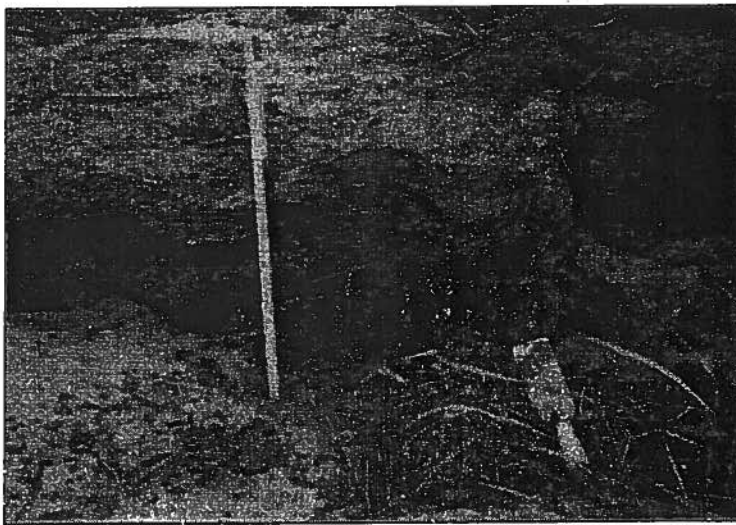


**GATES OF THE ARCTIC NATIONAL PARK AND PRESERVE
CULTURAL SITE MONITORING PLAN**



GAAR-98-009

November 1998

EILEEN DEVINNEY, U.S. National Park Service, 201 First Avenue, Fairbanks, Alaska 99701

revised
2/13/01

INDEX

Introduction	1
Project Background	2
Objectives	3
Determining Prioritizations	3
Gates of the Arctic Site Monitoring Scoring Key	7
Application of the Scoring Criteria	8
Monitoring Methods	11
Required Equipment	12
Steps 1-3: Finding the Site	13
Steps 4-13: Documenting the Site	13
Photographic Documentation	15
Measuring Erosion	15
Monitoring Zones	16
Training Requirements	19
Monitoring Schedule	20
References Cited	23
Appendix A: Sample Site Maps	24
Appendix B: Sample Photographic Logs	26
Appendix C: Measuring Erosion	28
Appendix D: Archeological Site Monitoring Guide	30
Appendix E: Monitoring Zone Polygons	34
Appendix F: Complete Listing of Cultural Sites	36
Appendix G: Listing of Sites to be Monitored	87

INTRODUCTION

The cultural resources of Gates of the Arctic National Park and Preserve (GAAR) include a wide range of prehistoric and historic archeological features left behind by Native and non-Native peoples.

While most sites are at surface level or beneath, a number of prehistoric and historic structures and features stand out above the horizon. Some are complex multi-component sites while others consist of a single artifact or small scatter of debitage (fragments of chipped rock left over from the manufacture of stone tools). To many visitors, the archeological features on the Gates of the Arctic landscape are not apparent. Over time, features such as house pits and campsites become overgrown. Sparse lithic and bone scatters often blend well with vegetation and naturally occurring rocks and gravels, making them very difficult to spot. Often, it is only the highly visible cabin or cairn that draws the attention of the park visitor.

Despite the fact that the cultural resources of Gates of the Arctic tend to be less visible than those found in many other regions, the protection of cultural sites from adverse human impacts remains a great concern and must be addressed as such by park management. There have been a few documented instances of adverse human impacts on archeological sites within the park. Perhaps the most notable of these was the partial looting of the Bateman Site, an Ipiutak site located along the western shore of Itkillik Lake. As a mitigation measure, park management permitted archeological excavation of portions of the Bateman Site in 1985. Likewise, site KIR-124 at Kurupa Lake was excavated in the early 1980s because it held great research potential and was threatened by possible mineral development in the area.

Natural impacts also take a significant toll on cultural resources. While it is both impossible and impractical to attempt to protect sites from the diverse forces of nature, it is important that park management be aware of potential losses of *significant* features and sites (that is, those possessing very high research potential) through erosion, deflation (the trampling of soils), flooding, cryoturbation (frost

heave action that thrusts up sections of earth), and other forces. In some instances where adverse natural impacts are known to exist, it may be within the interests of science and park management to permit archeological excavation of the affected site before the data are forever lost.

PROJECT BACKGROUND

The 1994 Gates of the Arctic Resource Management Plan cited "inadequate cultural resource monitoring programs" as a deficiency within the park, adding that "a regular monitoring schedule and use of consistent methodology is needed" (112). Project statement GAAR-C110 briefly addressed "Monitoring and Protection of Cultural Sites" as a management issue of concern:

"The establishment of a monitoring and assessment program would alert park management to changes in the conditions of threatened or impacted sites. At the same time this program would allow assessment of sites not already evaluated so that their level of significance can be determined and a site protection priority ranking developed" (139)

In addition to the Resource Management Plan, the FY98 Gates of the Arctic Government Performance and Results Act (GPRA) goals stated the need for the development of a monitoring plan and establishment of a baseline of threatened sites within the park and preserve. The Gates of the Arctic Cultural Site Monitoring Plan addresses concerns regarding site condition assessment, site significance evaluation, and overall site prioritization, thereby providing a framework for the identification and monitoring of threatened sites in a consistent and systematic manner.

At present, there are over 800 known archeological and historical sites located within the 8,202,517 acre Gates of the Arctic National Park and Preserve. Approximately 60 of those are historic and non-historic cabin sites. Given the size of the park and the number of sites known, assessing, evaluating, and monitoring are extremely challenging tasks. In addition, as was alluded to in the park Resource Management Plan, a realistic approach to cultural site monitoring is critical to the success of the program. The evaluation and prioritization of sites provides the only practical way in which to build a framework for directed actions.

The National Park Service currently lacks specific guidelines to assist parks in developing site monitoring plans. In formulating this plan, we have relied upon input from colleagues with extensive experience in conducting archeological fieldwork, particularly those in Wrangell-St. Elias National Park and Preserve and the Alaska System Support Office. A copy of the *1989 Archeological Resources Protection Plan* for Louisiana's Kisatchie National Forest provided additional background information and suggestions for approaching the task of site monitoring, albeit it for a geographical setting markedly different from arctic and subarctic Alaska.

OBJECTIVES

The Gates of the Arctic Cultural Site Monitoring Plan has been formulated with the following goals in mind:

- ◇ develop baseline documentation and establish reference points
- ◇ establish, document, and quantify impact trends
- ◇ establish resource awareness among park staff and managers
- ◇ detect changes, types of impacts, and rates of change
- ◇ develop a priority ranking of threatened sites requiring monitoring
- ◇ enable prediction of changes/impacts
- ◇ provide information for management actions and enable development of mitigation measures/actions
- ◇ evaluate effects of management actions
- ◇ provide justification/support for management actions

(Wrangell-St. Elias National Park and Preserve staff provided the wording in many of the objectives listed above)

DETERMINING PRIORITIZATIONS

Adequate protection of cultural sites from destruction and damage necessitated identification and assessment of human and natural impacts for each site and/or locality. In addition, compilation of information regarding the overall significance of each site, its accessibility, visibility, and stability was needed. Angela Demma (Alaska System Support Office Archeologist) and I began this daunting task by gathering baseline information concerning park resource use.

Early in the summer of 1998, Angela met with park Resource Manager Patty Rost to determine major human use areas and to assign map priorities based on backcountry zone polygons developed several years ago by Gates of the Arctic Ranger Operations. At a later date, I again consulted Patty about use areas. At this meeting, we sat down with quadrangle maps, noting locations where visitors and hunters frequently 'put in' and 'take out', and where users tend to hike, float, fish, and hunt. Jeff Mow rounded out the list by contributing additional information concerning hunter and recreation visitor use of park areas. The intense use areas noted by Jeff and Patty were highlighted on a park map and these data were later utilized in determining ease of access, impacts (existing and potential), and other factors affecting individual cultural sites.

In order to assign ranking scores in each criterion for individual sites, it was necessary to compile a comprehensive set of data for sites located within the park and preserve boundaries. In the early stages of information gathering, it became apparent that the park lacked sufficient information for many sites, so we turned to other sources. The Alaska System Support Office (AKSO) has organized and stored site data for many years in a variety of filing systems: Cultural Sites Inventory (CSI) files, Cultural Resources Mining Inventory and Management (CRMIM) files, List of Classified Structures (LCS) files, and a few park museum archival collections.

Once we determined where site information could be found, we began compiling a listing of all known sites located within the park and preserve boundaries. Although the AKSO had some idea as to the number of cultural sites located within the park, they had no comprehensive listing of such sites. The task required a review of the "master set" of cultural site maps located at the AKSO (copies of which were subsequently made for the Fairbanks office). Park boundaries were marked on quadrangles and a listing of sites within the boundaries was made. Following this exercise, we reviewed the state maintained Alaska Heritage Resource Survey (AHRs) database and numerous archeological reports for detailed information concerning individual sites. Many of the data necessary for compiling the listing were obtained from archeological reports, as well as from the AKSO Cultural Sites Inventory and

Cultural Resources Mining and Inventory Management files. The List of Classified Structures files were not examined due to time constraints. Relatively few LCS sites exist within Gates of the Arctic.

Data for sites determined to be within the park boundaries were compiled into an MSAccess database. The final database, stored in Fairbanks, contains records for 850 sites and is comprised of the following fields:

FIELD NAME	FIELD CONTENT
1:63360 Quad	Quadrangle name and number
MonZone	Indicate zone in which site is located
AHRSno	Alaska Heritage Resource Survey number, as assigned by the Alaska State Historic Preservation Office (SHPO)
Maprior	GAAR designated 'area priority' number (by backcountry zone)
CSIfile	Is there a CSI file for the site at the AKSO? (Y/N)
CSIfcopy	Has a copy of the CSI file been made for GAAR? (Y/N)
CRMIMfile	Is there a CRMIM file for the site at the AKSO? (Y/N)
CRMIMcopy	Has a copy of the CRMIM file been made for GAAR? (Y/N)
YUGAfile	Is there some semblance of a site file in the GAAR office? (Y/N)
Dual numbering?	Site cross reference number, if applicable (a field site number or cabin number)
Stab rating	Stability rating, based on scoring criteria
Stab concern	Describe stability concern(s)
Acc rating	Accessibility rating, based on scoring criteria
Acc concern	Describe accessibility concern(s)
Rec rating	Recreational use rating, based on scoring criteria
HuntSub rating	Hunter/Subsistence use rating, based on scoring criteria
Vis rating	Visibility rating, based on scoring criteria

NI rating	Natural impact rating, based on scoring criteria
NI concern	Describe natural impact concern(s), noting specific impacts
HI rating	Human impact rating, based on scoring criteria
HI concern	Describe human impact concern(s), noting specific impacts
Sig rating	Overall site significance rating, based on scoring criteria
Concentration area?	Is the site within an area of high site concentration, such as Kurupa or Itkillik Lakes? (Y/N)
Last visit	Year of last reported site visit/assessment
Rec'd visit	Recommended site monitoring/visitation cycle
Notes	Comments regarding site age, features, condition, etc.
Ownership	Indicate owner of land upon which site rests
Location	Indicate general location of site, such as on a knoll, saddle, or estimated distance to lakeshore or riverbank, etc.

The original database was split into two separate databases, one containing only those sites with Alaska Heritage Resource Survey numbers and one containing data for cabins only. Because some cabin sites are also associated with AHRs sites, a record may appear in both databases for the same physical site location. The final count for the Gates of the Arctic AHRs site database was 790. The final count for the cabin database was 60. [Note: In addition to these site databases, Yukon-Charley and Gates of the Arctic each have a comprehensive database for just the cabin sites. The cabin databases, while similar in content, are not the same as the database created during the site monitoring plan process.]

Concurrent with the creation of a Gates of the Arctic site list was the development of a site monitoring priority scoring system. The Yukon-Charley/Gates of the Arctic scoring system was modeled upon criteria drafted by Anne Worthington, Cultural Resource Specialist at Wrangell-St. Elias National Park and Preserve. Although assignments in scoring are inevitably subjective in nature, they provide a necessary means for sorting and ranking the many sites found within the park and preserve. The final Gates of the Arctic Cultural Site Monitoring Scoring key was fine tuned following consultations with

Gary Somers, Ted Birkedal, Anne Worthington, Richard Bland, Cyd Martin, Angela Demma, and other NPS employees.

GATES OF THE ARCTIC CULTURAL SITE MONITORING SCORING KEY

Stability

- 1 Unstable to the point that the site is now gone
- 2 Stable - definitive features well protected
- 3 Moderately unstable - definite potential for deterioration of definitive features
- 4 Unstable - definitive features deteriorating rapidly

Accessibility (modeled after the park's "Areas at Risk" ranking criteria)

- 1 Foot (or snowmachine) access only
- 2 Boat access only
- 3 Airplane access only
- 4 Airplane/boat access/foot/atv
- 5 Road, plane (includes commercial airplanes) and boat access

Recreation Use (modeled after the park's "Areas at Risk" ranking criteria)

- 1 Seldom visited
- 2 Low visitation (1-5 parties per year or 1-100 Visitor Days per year)
- 3 Moderate visitation (6-15 parties per year or 100-300 Visitor Days per year)
- 4 High visitation (16-30 parties per year or 300-400 Visitor Days per year)
- 5 Excessive visitation (>30 parties per year or 400+ Visitor Days per year)

Subsistence and Sport Hunter Use (modeled after the park's "Areas at Risk" ranking criteria)

- 1 Species harvest unknown
- 2 Low subsistence and sport harvest of big game or furbearer species
- 3 Moderate subsistence and sport harvest of big game or furbearer species
- 4 High subsistence and sport harvest of big game or furbearer species

Visibility

- 1 Low profile - site is difficult to recognize; no visible artifacts or features
- 2 Moderately low profile - site not readily apparent; few artifacts, subtle features
- 3 Moderately high profile - site easily recognized; abundant surface artifacts, obvious features
- 4 High profile - site attracts attention from distance or is well known; abundant artifacts, well defined features/structures

Threats From Natural Impacts

- 0 Complete loss of site through natural impacts. No threats, as site is gone.
- 1 No known natural impacts
- 2 Moderate - threat of partial loss of site
- 3 High impact - imminent threat of complete loss of site

Threats from Human Impacts

- 0 Complete loss of site through human impacts. No threats, as site is gone.
- 1 No evidence of impact/no known impact
- 2 Moderate - faint trails or moderately popular river corridor/camping/evidence of collection piles
- 3 High - well defined trails or highly popular river corridor/high incidence of camping/extensive collection piles/pit digging/vandalism/looting

Site Significance (from an archeological perspective)

- 1 Low significance
- 2 Local/moderate significance
- 3 Regional/high significance
- 4 Park priority - management emphasis (such as Coal Creek Camp and public use cabins)
- 5 National significance

APPLICATION OF THE SCORING CRITERIA

While a number of archeological reports and files contained assessments of site significance, overall condition, threats, and impacts, this was not always the case. Each researcher, crew, program and project had their own way of recording and reporting field data. Monitoring scores were assigned according to the data currently available. Due to differences in data recording and the subjective nature of the assessment process, users of the database should be aware that the entries lack overall consistency. In the end, however, the scoring system should allow for basic ranking and determination of monitoring needs.

Assessment and scoring of approximately 197 sites has yet to be completed, pending acquisition of reports and/or Alaska Heritage Resource Survey data necessary for doing so. Criteria established are as follows:

Stability – scoring for this category was inconsistent, as many of the site reports did not provide adequate information for making an assessment. Thus, scores within this field were not added into the tally for overall impacts. However, the stability category should be retained and any future site visits should include observations to assist in assigning a score.

Accessibility – scoring was assigned based on possible methods for accessing the site, such as by foot, airplane, boat, road, trail, or snowmachine. Staff familiar with the diverse resources of the park and preserve assisted in applying scores for each zone.

Recreation Use – scoring was done by consulting Ranger Operations and other staff. Figures obtained from recreation use statistics were applied.

Subsistence and Sport Hunter Use – scores were assigned according to known levels of hunting and subsistence activities within the zone in which the site appears.

Visibility – scoring for this category was inconsistent, as site reports were often unable to provide usable information. In the case of standing cabins and some structural ruins, the visibility score was often assigned in the 3 to 4 range, although the database must be carefully reviewed for verification of scores for many sites. Due to the lack of data in this category for all sites it is not possible to factor the figures into the overall impact scoring system. However, the field was retained for future entries and updates so that, eventually, the data can be applied to the priority ranking.

Threats from Natural Impacts – scoring was assigned according to information provided in reports and site files. Fortunately, archeologists commonly address natural impacts (or potential impacts) in site reports. It is important to note that a significant number of the known sites within Gates of the Arctic have not been visited or assessed by an archeologist (or any other staff member) for several years, sometimes for decades. As a result, impact scores must be examined together with the last known date of site visit and site assessment. While this is by no means ideal, current limitations in personnel and resources do not allow for extensive revisitation and reassessment.

Threats from Human Impacts – scoring was assigned according to information provided in archeological reports and from data available from other park staff. This category is unique in that scores were based on both *known* and *potential* impacts. This strategy was employed because several archeological reports, particularly those compiled by Michael Kunz (former Gates of the Arctic Archeologist), specifically noted observed impacts, as well as potential impacts from recreation users,

hunters, and other parties. Inclusion of potential impacts provides managers with critical information for directing area patrols and other monitoring activities.

Site Significance – scoring was assigned based on archeologists' assessments of site features and components. A word of caution from archeologist Mike Kunz's 1984 Upper Kobuk River report is worth noting here: "At the end of each site report is a very brief statement of significance. This statement is made for the benefit of the land manager so that judgements concerning the necessity of mitigative action regarding an impacted archeological site can be made. *This statement of significance should not be considered acceptable for use in submitting nominations to the National Register of Historic Places as in no case has sufficient site data for nomination been obtained*" [emphasis in original]. This caveat holds true for the assigned scores in the current cultural site list database.

Prehistoric and historic sites with high research potential were scored as 4. Multi-component sites and sites with diagnostic materials present were generally scored as 3. Historic cabin sites were also scored as 3. The scoring process is, as stated earlier, very subjective. Some site scores may require revisitation and comparison with scores assigned to similar sites, or for sites of roughly equivalent overall significance. Comments in the "Notes" field may prove useful in reviewing scores, as key features, site age, research potential, and artifact types are occasionally included in that field.

Site monitoring priorities were initially determined by sorting sites according to the overall significance scores (the higher the number, the more significant the site). Sites were further ranked according to an overall impact score. The overall impact score for each site was calculated by adding together the scores from the following impact categories: accessibility, human impact, natural impact, hunter/subsistence use, and recreation use. It is important to emphasize that the final ranked site listing has limitations, as it was not possible to assign ratings in several of these categories for many sites. The final listing of sites to be monitored, organized by backcountry zone, is contained in Appendix G.

MONITORING METHODS

Development of monitoring methodology will be an evolving process as procedures are field tested differing site conditions and circumstances are encountered. Merely locating each site will, in itself, be a challenge, even when field notes and site data are available. Indeed, some sites may have been destroyed by erosion or other impacts since first being documented. In a small monitoring test run of sites along the Itkillik River between Oolah Lake and Oolah Pass cultural resource staff encountered a number of difficulties:

“Of the eight sites, only one was not found [], despite exhaustive searching... We diligently searched the entire confluence area and found no evidence of such a site...

On several occasions, we found that the physical descriptions for site locations were not detailed enough to allow for accurate identification and pinpointing of the target area. We also found that we rarely had site maps available from the 1984 [original] survey work. Even in cases where the site maps were included in the report or field notes, the ability to locate sites in relation to natural features, or to one another, proved difficult...

Datum was not located... Without the datum point for reference, it was rather difficult to locate artifacts and assess changes in the site” (Devinney and Demma 1998).

According to Michael Kunz’s reports, each of the sites located during the 1984, 1985, and 1986 Cultural Resource Survey and Inventory Projects was marked with a permanent site tag (a roughly 2 by 3 inch aluminum plate impressed with the site’s unique Alaska Heritage Resource Survey number and the date of discovery) [Refer to methodology section in Kunz’s annual project reports]. Each tag was then connected to 10-inch metal spike by a short length of wire. In addition to anchoring the tag, the spike serves as a site datum.

During the 1998 Itkillik River monitoring project, the following circumstances were noted: at four sites spikes and tags were in place, at one site the tag was no longer affixed to its spike (although the tag was laying on the site location), at one site a spike with affixed tag had been uprooted but still lay near the position indicated in the 1984 field notes, and the final two sites were completely devoid of spikes and tags.

Comments found in numerous reports and field notes indicate that most sites within the park and preserve have been marked with datum spikes and/or site tags. However, previous existence of site tags is no guarantee for their remaining in place. With the absence of tags, detailed locational descriptions, and accurate points on topographic maps, sites may prove quite elusive to individuals charged with monitoring. Diligence, patience, good humor, and a bit of luck will most certainly be required for success of the project and the sanity of participants.

Cultural Resource staff, with input from Ranger Operations, will develop a list of sites to be monitored in zone priority order (see pages 16 and 17 for monitoring zone descriptions). Although site types and conditions will vary, there are some general guidelines and techniques that must be followed in conducting archeological site monitoring for Gates of the Arctic National Park and Preserve. An Archeological Site Monitoring Guide form has been developed to assist field personnel in properly documenting critical information for each site located. Appendix D contains both a blank and completed sample of the Archeological Site Monitoring Guide.

REQUIRED EQUIPMENT

The following equipment and supplies are available from the Fairbanks Office. Some of the items may also be available in the offices at Anaktuvuk Pass and Bettles. Note: if you are departing from Fairbanks you should bring all necessary supplies with you, rather than depleting the limited field supplies.

- Field Book (such as Rite-in-Rain)
- Archeological Site Monitoring Guide (these are forms for you to fill out while on site)
- 35 mm camera (two cameras are ideal – one for color slide, and one for B&W print film)
- Black and White print film
- Color slide film (200 ASA preferred)
- Fiberglas measuring tape (reel in 50meter length is ideal)
- Pencil
- Sharpie marker
- Rite-in-Rain graph paper
- GPS
- 1:63 360 maps for the area
- Compass

- Scale for photographs (this can be any standard size item, such as a Swiss Army knife)
- 2 or 3 chaining pins and site tags
- Spare camera batteries

Steps 1-3: FINDING THE SITE

- 1 Bring the packet of site information containing copies of site descriptions, locational information, field notes and site maps, if available. Site information will be assembled at the beginning of the field season by Cultural Resource staff.
- 2 Using information found in existing fieldnotes, locate the site.
 - Sometimes site locational information lacks clarity, so it may be necessary to roam around the general area. You may find that it helps to reread the description as you orient yourself.
 - Read the field notes and site descriptions carefully – they provide comments on the surrounding landscape that should help you in locating the site as you stand in the area and try to match their descriptions with what you are seeing.
- 3 Compare fieldnote descriptions of site features/artifacts with the current site composition. Make sure that the description reflects what you are seeing. If things don't seem to match up, you're probably not in the right spot and will need to look elsewhere in the vicinity.

Steps 4-13: DOCUMENTING THE SITE

- 4 Note the presence or absence of a site tag and/or datum.
 - Datum rods are usually one of the following types, all of which are driven into the ground so that only a small portion remains at the surface: a piece of rebar (often fitted with a metal cap), a silver colored spike, or a metal chaining pin (a slender rod with an eye hole bend at the top – many chaining pins are painted in red and white stripes, but be aware that the paint can wear off over time).
- 5 Compare current site conditions with the previous assessments in the site list database entry (a printout of this will be provided in the packet).
 - Complete an Archeological Site Monitoring Guide (or address each of the categories of information requested in your field notebook).
 - Note any omissions, contradictions, and/or changes to the record.
- 6 Take a GPS reading (in UTM *and* LAT/LONG) once the site datum is located.
 - If there is no site datum, take a reading within, or adjacent to, a feature. Note on your site map where you took the reading.
 - Note the type of GPS equipment you are using (Magellan, Garmin, etc. and model number) and the datum being used.
 - You may record the elevation provided by the GPS (although be aware that the figure is often erroneous).
- 7 Mark the site location on a topographic map. Do this even if you also took a GPS reading.

- 8 If a site map was not provided, draft a basic map showing the site's features and their relationship to each other and to the physical landscape.
 - Don't worry if you are not an artist – but do try to put a bit of effort into it. Decent sketching efforts will prove useful in future monitoring visits.
 - See Appendix A for examples of 'to scale' and 'not-to-scale' site maps.
- 9 Take compass readings to triangulate, if possible given the terrain and your abilities with a compass. This will aid others in relocating the site.
- 10 Conduct a thorough inventory of the site - walk around the area, noting cultural features and disturbances.
- 11 Match artifacts on site with descriptions in the field notes provided. Make additional notes if information is lacking (you may not be able to tell what an artifact is, but you can indicate what it is made of, how large or small it is, take photographs, etc.)

First, a brief word about **Artifacts** versus **Features**:

An *artifact* is any portable object made or altered by humans.

A *feature* is any larger, non-portable, man-made object. This category includes things such as houses, cache pits, hearths, gardens, caribou fences, trails, etc.

- Photograph artifacts *in situ* (i.e., as they appear in place, unmoved).
 - Photograph features.
 - Record and photograph any human impacts on or near the site. These might include: trash, diggings, campsite indications, cut branches, burn areas, fire rings, etc. Note the proximity of impacts to site features.
 - Record and photograph any natural impacts on or near the site such as: erosion, blowout areas, frost heaving, fire, animal excavations, flooding, game trail, deflation, etc. Note the proximity of impacts to site features.
- 12 If you find recent camp trash on site (such as plastic bags or paper) you may remove it. However, **a strong word of caution: Do not assume** that metal cans, glass bottles, and/or fragments of material are trash that must be removed from the park. There are many sites in Gates of the Arctic that have been used for decades and centuries, and this includes the 20th century. At these sites, you will often find coffee cans, tobacco cans, glass bottles, etc. **These items should be left as they are.** The general rule is: **When in doubt, leave it in place.**
 - 13 Return all information (forms, field notes, photographs/film, etc.) to Cultural Resource staff in the Fairbanks office *immediately* upon your return to your duty station – i.e. before your next trip.
 - We prefer receiving your original notes but will accept clear, legible photocopies.
 - Cultural Resource staff will follow up with a phone call to clear up any questions.
 - You may send your undeveloped film to the Cultural Resource staff in Fairbanks and we will have it developed locally. If you decide to do this, please be sure to identify the rolls by number and provide us with copies of your photographic log(s). If you have some personal shots mixed in, let us know and we will send them back to you.

PHOTOGRAPHIC DOCUMENTATION

- Make a photo log and use it (see Appendix B for examples) . It can be annoying at times to have to take notes while photographing, but it is critical for imparting significance to the lovely and informative images that you will be capturing on film.
- Add a scale in the frame whenever possible. This is particularly important when photographing features and small artifacts. Specialized equipment is not required – you can use a common item of a standard size, such as a Swiss Army knife, a pen or pencil.
- Use a person in the image for scale if taking a shot of a large feature.
- When possible, indicate a compass direction in your photo. You can open a pocketknife and point the blade towards true north. Make it standard practice to use true north. If you use the object as an indicator of true north, note this in your photo log entry.
- Know your camera and how it works *before* you take it into the field. If you have a point-and-shoot camera, make sure that you know the limit of how close you can get to your subject before it becomes blurry bit of abstract art.
- Bring a spare camera battery with you in the field.
- Shoot a test roll or two at the beginning of the season to make sure that everything works well and that you know how to use the camera.
- Mark all of your film canisters or rolls with the roll number while in the field. This helps to eliminate confusion later on. Use a sharpie pen for marking them.
- Try to take a few shots of features from different angles.

MEASURING EROSION

Measuring erosion can be tricky but it is possible to do it in a way that will suit our needs – which is to attempt to assess the rate and direction of erosion as it relates to a nearby cultural site. The major erosional concern is the undercutting of riverbanks caused by high volume river flow and ice floes during spring breakup.

- In order to record conditions in a consistent manner, you will have to do so from a fixed point. Each site should have a fixed point in the form of the site datum/spike.
- If there is not a datum present you will have to establish one by tapping a chaining pin into the ground near the site.

- Select a location on or near the site. Make sure that the datum location is in a good spot from which to measure erosion. Take into consideration the fact that the datum can be placed on the 'far side' of the site, so that the site rests between the datum and the eroding bank.
 - Place the datum in a spot that is well enough away from the bank to make it secure over the long haul.
 - Be careful not to damage artifacts as you pound it in.
 - Attach a site tag with the site number impressed on it.
 - After attaching the tag, try to pound the pin down so that it is nearly flush with the ground.
 - Take a GPS reading of the datum location.
 - Mark datum location on your site map.
 - Comment in your notes that you had to add a datum to measure erosion.
- Measure with the metric tape held atop the datum.
 - Have the second person walk to the bank edge unspooling the tape as he/she goes.
 - Record compass direction from which you took the measurements so that the exact process can be duplicated on the next visit.
 - Establish several compass angles from which to measure. The result will be the measurement of a large section of the affected riverbank, rather than merely one single point.
 - Refer to figure in Appendix C: Measuring Erosion.

MONITORING ZONES

In order to make the task of monitoring in such a vast park/preserve more approachable, it was necessary to group sites into logical geographic sectors. Gates of the Arctic Ranger Operations had previously divided the park/preserve into backcountry polygons as a means to assist them in recording backcountry patrol information. These backcountry polygons generally divide the park/preserve according to watersheds, breaking down larger drainages into two or more sections where appropriate.

The following table lists the zones in alphabetical order according to the four letter designation for each. A map of the park/preserve featuring these polygons can be found in Appendix E:

MONITORING ZONE	CODE	AREA COVERED
Eastern Alatna River area	ALAE*	Headwaters and upper portions of northern watersheds feeding into the Alatna. Delineated by Shivering Mountain east to Nahtuk Mountain and southeast to Ernie Lake and the park/preserve boundary. Includes: Kutuk Pass, Alatna Lake, and July Creek.
Lower Alatna River	ALAL	From the mouth of Unakserak Creek to the southeast park/preserve boundary.
Upper Alatna River	ALAU*	From Alatna headwaters down to Unakserak Creek. Includes: Pegeluk Creek.
Allen River	ALLE*	Allen River drainage from headwaters to park boundary.
Anaktuvuk	ANAK	Anaktuvuk River north and east, Graylime Creek as far as Ernie Pass. Includes: Anaktuvuk Pass village.
April Creek	APRI	April Creek from the mouth up as far as Kutuk Pass.
Arrigetch Peaks	ARRI*	Arrigetch region. Includes: Awlinskyak and Arrigetch Creeks.
Castle Mountains	CAST	Castle Mountains sector of park/preserve.
Chandler Lake	CHAN	Agiak Lake north to Chandler, Little Chandler, Round, and White Lakes (the northern park/preserve boundary).
Clear River	CLEA*	Clear River from Amawk Mountain south to confluence with the Koyukuk. Eastern boundary defined by White, Chimney, and Foggytop Mountains. Includes: Kinnorutin Pass area.
Easter Creek	EAST	Easter Creek from below Tulilik Lake to Lonely Lake. Includes: Suluak Creek.
Glacier River	GLAC	Glacier River watershed bounded to the north by Whiteface Mountain, Chimney Pass, and Roy Creek. Southern edge includes LaSalle Creek. Also includes: lower Conglomerate, Swede and Mascot Creeks.
Hammond River	HAMM	Hammond River watershed to eastern park/preserve boundary. Includes: Kuyuktuuk Creek.
Hunt Fork	HUNT	Includes: Hunt Fork, Agiak Creek, Lonely Lake, and Kevuk Creek.
Itkillik River	ITKI	Northeast corner of park/preserve. Itkillik River as far south as Summit Lake. Includes: Itkillik Lake, Oolah Lake, and Oolah Pass.
Lower John River	JOHL	John River from the Hunt Fork confluence to the southern park/preserve boundary. Includes: Tangleblue, Wolverine, Shukokluk and Mashooshalluk Creeks.
Upper John River	JOHU	Upper John River from just south of Anaktuvuk Pass village to the Hunt Fork confluence. Includes: Ekokpuk, Publutuk, Kollutuk, and Kollutarak Creeks.

Lower Killik River	KILL	Lower Killik River from above Tulilik Lake to the park/preserve boundary. Includes: Kurupa Lake and mouth of Easter Creek.
Upper Killik River	KILU	Headwaters of the Killik down to Tulilik Lake area. Includes: Kakivilak and Ayakalak Creeks.
Kobuk River	KOBU	Upper Kobuk River from preserve boundary below Walker Lake to the southern boundaries. Includes: Nutuvukti Lake.
Nanushuk River	NANU	Northern park boundary at Alapah Creek and Nanushuk River south to Alapah Mountain.
Nigu River	NIGU*	Nigu watershed plus portions extending to northern park/preserve boundary.
Lower Noatak River	NOAL	Lower Noatak River from Lake Omelaktavik to the eastern boundary. North as far as Nukatpiat Mountain, south as far as Shulakpachak Peak. Includes: Lakes Kipmik, Amitchiak, and Matcharak.
Upper Noatak River	NOAU	Upper Noatak River. Headwaters to Lake Omelaktavik.
Lower North Fork Koyukuk	NORL	Lower NF from Eroded Mountain to southern park/preserve boundary. Includes: Bonanza, Horse, Rock, and upper Conglomerate Creeks.
Middle North Fork Koyukuk	NORM	Confluence of NF and Ernie Creek down to Eroded Mountain. Includes: Kachwona Creek.
Upper North Fork Koyukuk	NORU	Upper NF from Ernie Pass and the NF headwaters down to the confluence with Ernie Creek.
Okokmilaga	OKOK*	Okokmilaga River, Kugukpak, Sulugiak, and Verdant Creeks. As far south as continental divide and Marker Mountain.
Upper Ambler River	SCHW*	Upper reaches of Ambler River
Schwatka Mountains	SCHE*	Includes Reed River Hot Springs, Inyullak and Ivik Creeks, Maneluk River, and Angunelechak Pass.
Tinayguk River	TINA	Tinayguk River watershed. Includes: Wolf Creek.
Walker Lake	WALK	Includes: Walker Lake, Kobuk River headwaters, Kaluluktok Creek, and a small section of Reed River.

* Indicates a current absence of known sites within the backcountry zone.

The complexities of archeological site monitoring necessitate the ranking of sites and a willingness to make concessions to logistical needs and the practical allocation of resources. In overlapping recreation and hunter use areas, areas of archeological site concentration, and locations of highly significant sites, it is possible to develop a list of key areas in which to focus monitoring activities. It is important to note that several of the monitoring zones are currently known to contain few, if any,

recorded sites. This is generally due to a lack of survey in areas of the park and preserve and not that actual absence of cultural sites in those particular sectors. In contrast, a number of zones contain far more sites than could be visited within a given field season.

Using the archeological site priority listing as a guide, cultural resource staff will create a listing of targeted sites for each field season. It is recommended that sites ranked in significance as 4 and above be monitored on an annual basis, when possible. As park rangers and other staff update site conditions, it may become necessary to adjust the projects and targeted sites/zones for subsequent seasons.

TRAINING REQUIREMENTS

Seasonal rangers will accomplish the majority of Gates of the Arctic cultural site monitoring while they are conducting backcountry patrols. Any staff conducting a trip within the park at ground level will be asked to assist in monitoring cultural sites so that the broadest coverage possible may be achieved.

Cultural resource staff will assemble packets of information for locating and identifying each site within the zone(s) selected for the season. In addition, basic information about the archeology of the region, typical features, artifacts, etc., must be provided to temporary staff at the beginning of each field season. A small amount of cultural resource training will help to increase their ability to identify and record sites and features.

In addition to the site information packet, time will be set aside during the park seasonal training sessions for cultural resources orientation. Cultural Resource staff will develop a slide presentation to be shown to all staff during the training sessions. Slides will depict the typical landscapes found in the park, noting the types of terrain and natural features that were suited to various human activities in the distant and recent past. Images of artifacts and features typically found on Gates of the Arctic's landscape will be included, such as lithic scatters, house pits, cache pits, cairns, inuqsuqs (caribou fences), etc.

On-site Cultural Resource training will be provided during the annual seasonal float trip on the Middle Fork of the Koyukuk. A few sites along the Middle Fork can be used as test cases where staff

will have an opportunity to practice locating sites using field notes, identifying features and artifacts, and recording information in notes and through photography. This should allow for visits to both historic and prehistoric sites. Dependent upon the locations of various sites, it may be necessary to consult with the Bureau of Land Management for additional information before using this area for training.

MONITORING SCHEDULE

The 1999 field season will be the inaugural attempt at conducting archeological site monitoring in Gates of the Arctic with the help of non-Cultural Resource staff. Seasonal Ranger staff will start from scratch, using only the data currently available, as was done on the Itkillik River monitoring trip in 1998. It is highly recommended that a Cultural Resource staff member accompany them, at least for a few days, to provide some ground level orientation. During the 1998 Itkillik River monitoring, it was learned that locating sites, even for those trained in archeology, can be an incredibly difficult task. In addition, when sites are located in close proximity to one another, it is possible to mix them up and/or misidentify features.

The following table lists the monitoring zones in priority order with recommended target dates for site visits. Refer to Appendix F for a priority ranked listing of cultural sites within each of the Monitoring Zones. The figures in the "Number of Sites" column indicate the number of critical sites which must be examined. Figures in parentheses refer to the number of sites of secondary concern in the vicinity. These sites should be examined along with the key sites if time allows.

MONITORING ZONE	CODE	FOCUS AREA	TARGET YEAR	NUMBER OF SITES*
Itkillik River	ITKI	Oolah Lake to Haul Road: river banks and travel corridors	1998	2
Itkillik River	ITKI	Itkillik Lake: lakeshore	1999	10
Killik River	KILL	Lower Killik River: riverbanks and travel corridors	1999	2+(2)
Anaktuvuk	ANAK	Anaktuvuk River and Graylime Creek: riverbanks and travel corridors	2000	1+(1)

Middle North Fork Koyukuk	NORM	Koyukuk: riverbanks and travel corridors	2000	4
Chandler Lake	CHAN	Chandler Lake: lakeshores and nearby travel corridors	2001	1+(3)
Agiak Lake	HUNT/ CHAN	Agiak Lake: lakeshores and nearby travel corridors	2001	2+(3)
Walker Lake	WALK	Walker Lake shore (especially southern portion) and portage areas to Kobuk R.	2001	1+(4)
Killik River	KILL	Kurupa Lake: lakeshore and travel corridors, if any	2002	3+(7)
Kobuk River	KOBU	Upper Kobuk River: riverbanks	2002	4
Glacier River	GLAC	Glacier River: riverbanks and travel corridors	2003	1+(4)
Itkillik River	ITKI	Oolah Lake to Itkillik Lake: Itkillik River banks and travel corridors	2003	5+(6)
Lower North Fork Koyukuk	NORL	Koyukuk: riverbanks and travel corridors	2003	1
Upper North Fork Koyukuk	NORU	Koyukuk: riverbanks and travel corridors	2004	(3)
Amiloyak Lake	HUNT/ CHAN	Amiloyak Lake: lakeshores and nearby travel corridors	2004	(3)
John River	JOHU	Upper John River: riverbanks and travel corridors	2004	3
Lower Noatak River	NOAL	Lakes Kipmuk and Amitchiak: lakeshores	2004	2+(5)

*This is the estimated number of sites that will be targeted for monitoring, and not necessarily the entire site count for the given zone.

Site data will be concisely formatted for field use whenever possible. Cultural Resource staff will attempt to consolidate the data for each site onto one or two sheets of paper, making it easier to carry the necessary documentation. It may also be desirable laminate datasheets so that they can better withstand the abuses of fieldwork. The ultimate success of the program will be dependent upon a willingness to take into account the feedback and suggestions of participants. Some aspects of the program may be determined to be impractical or even impossible. At the same time, alternatives may be developed as we apply new knowledge.

Further consultations with Gates of the Arctic Ranger Operations will be needed to formulate a realistic timetable for a visitation cycle. It is recommended that monitoring visits be conducted at approximately the same time every year for consistency. However, at present, it is not possible to state whether or not this would be a feasible approach. Adoption of a less rigid schedule would still have potential for allowing resource managers to gain a better understanding of the types and extent of threats facing Gates of the Arctic cultural resources. Information gained from field visits will allow for the development of a more proactive approach to site protection.

References Cited

Devinney, E. and A. Demma

1998 "GAAR Archaeological Site Monitoring. Test Run – Itkillik Valley: Oolah Lake to Haul Road," trip report for Gates of the Arctic National Park and Preserve. In park main files.

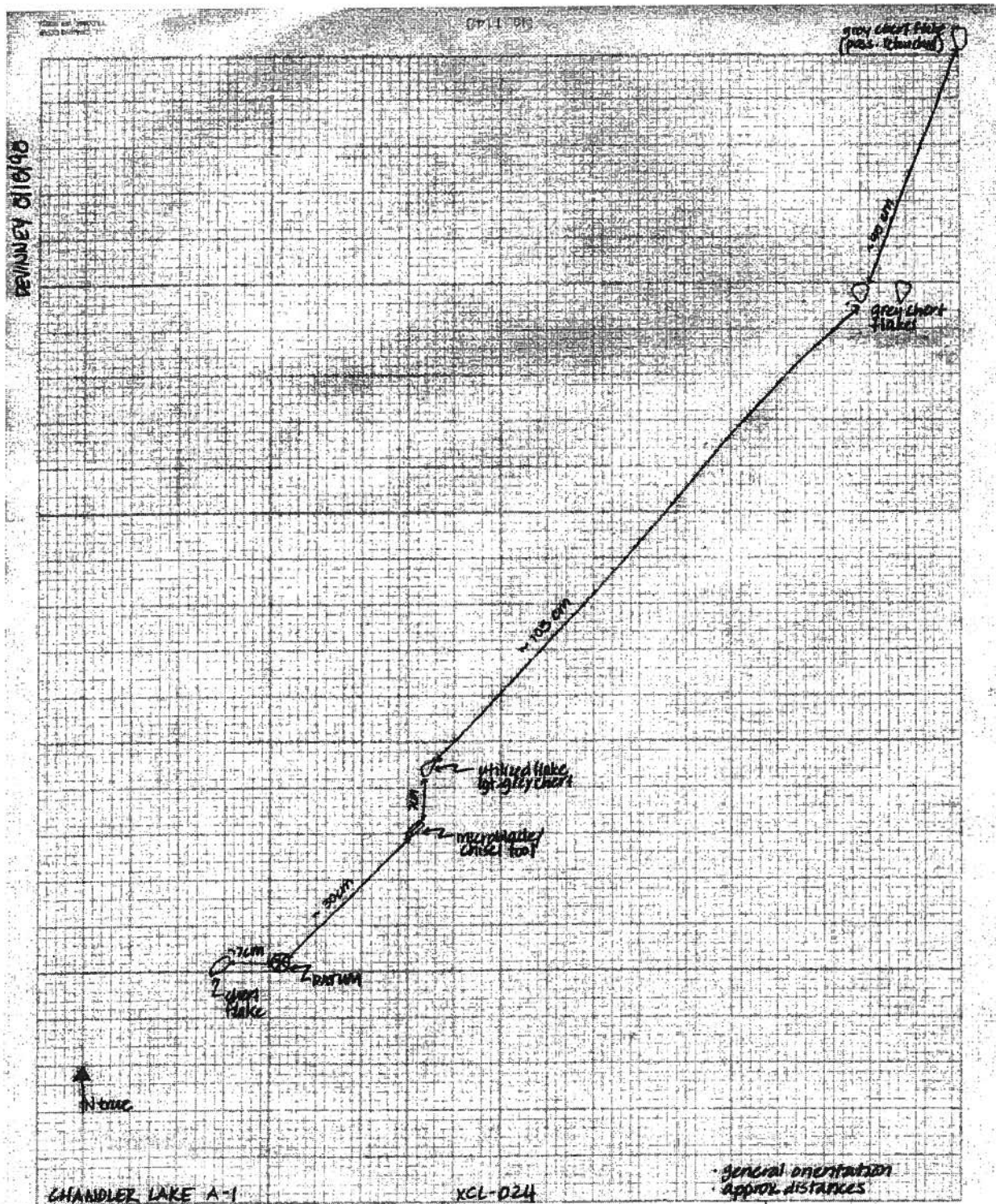
Kunz, Michael

1985 *Upper Kobuk River Drainage: A Report of Phase I of a Cultural Resources Survey and Inventory.* Fairbanks: National Park Service.

National Park Service

1994 *Resource Management Plan, Gates of the Arctic National Park and Preserve.* Fairbanks: National Park Service.

APPENDIX A:
SAMPLE SITE MAPS



Site map showing artifacts in relation to datum and in general orientation to one another. Not to scale. Note inclusion of site number, datum, and general relationship of artifacts to one another.

APPENDIX B:

SAMPLE PHOTOGRAPHIC LOGS

KR 64

13	1/5	Buster fueling 185 on Kageruk River prior to takeoff directly N 4:15 pm
14	1/6	XCL-025 Flake/burn scatter - Travel TNT Atomium Site tag
15		XCL-025 burinated flake Travel TNT
16	1/5	XCL-025 burin spall & flakes TNT 9
17		XCL-025 microblade frag Travel TNT
18	1/5	XCL-025 looking W 215° to Augmagul-gum Crack, Eileen Davina in mid ground 8 ft marker in foreground
19	1/5	XCL-025 looking TNT Eileen Davina in mid ground
20	1/5	XCL-025 looking E 95° Ed in mid ground
21	1/5	XCL-025 looking S 202° Ed in center
22	1/5	XCL-025 Travel TNT primary burin spall
23	1/5	XCL-025 Travel TNT "
24	1/5	Two possible cache pits looking ENE 78° ^{ED} TA
25	1/5	Northern most cache pit looking NE 55° ^{ED} TA
26	1/5	Two possible cache pits looking WNW 291° ^{ED} TA
27	1/5	XCL-030 Hearth 4 ^{gun} TNT looking N
28		XCL-030 Hearth 4 gun travel TNT looking 36 ft NW
29		XCL-030 Hearth 1 rocks removed to make stone wind block (in back ground) Travel TNT looking 236° (SW)

This sample is from a field notebook. Note that the site number has been referenced and directional information is provided. The feature names, such as "Hearth 4," can be matched up with the site map.

Project: Itkwilik Valley: Oolah Lake to Haul Road Archeol. Site Monitoring
 PHOTO LOG

ROLL # 19981105-1-27

FILM TYPE TMax 100

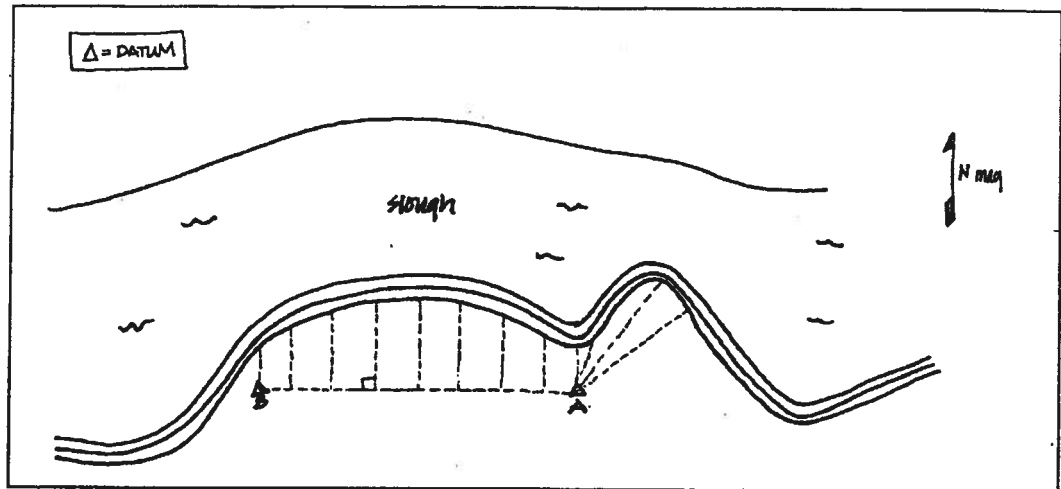
PHOTOGRAPHER Angela Demma

FRAME	DESCRIPTION	DATE TAKEN
1	XCL-030 Frags of metal between hearths 1 & 2	8/7/98
2	XCL-030 Hearth 2, view to N	"
3	XCL-030 Hearth 2, view to E	"
4	XCL-030 Hearth 3 - disturbed feature, viewed to N	"
5	XCL-030 Hearth 3 - disturbed feature, viewed to E	"
6	XCL-030 Hearth 1	"
7	XCL-030 Hearth 1	"
8	XCL-030 Cut Sheep Skull	"
9	XCL-030 Caribou jaw bone in Hearth 1 (1 cut metal)	"
10	XCL-030 bone frag in wall of hole where hearth stone was	"
11	XCL-023 from site looking NW, Trowel trace N	"
12	XCL-023 looking up Oolah Valley SE, Eileen in midground	"
13	XCL-023 looking SW 237°, Eileen on site. Unnamed Creek	"
14	blowout	"
15	blowout	"
16	XCL-023 close up of strange hole & test pit?	"
17	near XCL-023 Parka Squirrel hole	"
18	looking toward XCL-023? looking NE	"
19	looking toward XCL-023? looking NE	"
20	Oolah Valley Landslide W	"
21	Oolah Valley Landslide NW	8/8/98
22	Oolah Valley Landslide N	"
23	Oolah Valley Landslide NE	"
24	Oolah Valley Landslide E	"
25	XCL-024 possibly near center of photograph	"
26	XCL-024 possibly near center of photograph	"
27	View to mountain terrace between area of XCL-024 & 029	"
28		
29		
30		
31		
32		
33		
34		
35		
36		

This sample is from the file copy, made after returning from the field. The information is transferred directly from the fieldnotes.

APPENDIX C:
MEASURING EROSION

Sample site map showing an eroding cutbank. The series of lines along the bank edge show contours of the slumpage into the slough.



To Measure from Two Datum Points:

1. String a line between the two datums, creating a baseline.
2. While you stand along the baseline, have your partner grab the other end of the measuring tape and walk out to the top edge of the eroding bank. (OK, in these measuring exercises we're counting on common sense to keep you from walking onto an unstable bank edge and tumbling down into the river.) If it is unstable, get as close as you dare and then carefully estimate the remaining distance. Record the distance from the datum to the point where your tape intersects the baseline.
3. Be sure to measure out from the baseline at as close to a 90 degree angle as you can. Record the distance from the baseline to the top edge of the eroding bank.
4. Repeat step 2, measuring out from the baseline, until you have recreated a sitemap that accurately reflects the erosional pattern that you see on site. You may elect to measure at regular intervals along the baseline.

To Measure from a Single Datum Point:

1. While standing over the datum point, have your partner walk out to the edge of the eroding bank.
2. Record both the distances to the edge AND the compass degree reading taken while standing over the datum, facing out to your partner along the measuring tape.
3. Repeat step 2 at a series of points until you have recreated the bank erosion on paper.

APPENDIX D:
ARCHEOLOGICAL SITE MONITORING GUIDE

Site Number: _____ - _____ Date: _____

Recorded By: _____

Site Location:

- a. USGS Quadrangle: _____ (____ - ____)
- b. T ____ N, R ____ E, Section _____, ¼ Section _____
- c. UTM: N _____ E _____ ZONE ____
- d. LAT _____ LONG _____

Site Description

a. Site Location:

b. Features:

c. Visible Artifacts:

Impacts on site

a. human impacts:

[illegible]

Photographs

Roll Number _____

View (ex, compass direction)

[illegible]

ARCHEOLOGICAL SITE MONITORING GUIDE

Site Number: XCL - 030 Date: Aug 7, '98

Recorded By: Angie Demma + Eileen Devinney

Site Location:

- a. USGS Quadrangle: Chandler Lk (A-1)
- b. T N, R E, Section , 1/4 Section
- c. UTM: N E ZONE GPS datum: NAD27 Alaska
(Garmin 45 GPS)
taken at datum spike
- d. LAT N 68 06' 52.5" LONG W 150 17' 35.7"

Site Description

- a. Site Location:
located on the south bank of the Itkillik River (on the valley floor) & east of
the confluence with the tributary from Snowheel Mtn. It is near the confluence
of the 2 rivers and is located approx 19 meters from the present bank of the
unnamed Snowheel Mtn tributary. It's on a broad, open area with covering of
sporadic dwarf willow - on an area that is rather flat.
- b. Features:
4 hearths (plus a questionable 5th). 2 tent rings (circles of rocks)
stone windbreak - recent construction
(datum spike + ID tag present)
- c. Visible Artifacts:
rusty metal fragments are present on surface throughout site
bone + antler fragments - especially visible around hearths and in ground
where rocks from hearths had recently been removed.
saw cut sheep skull - horns removed. It's weathered a bit.
(worked wood seen previously was not readily apparent)

Impacts on site

- a. human impacts:
2 of the 5 hearths have been damaged - rocks were recently removed & seem
to have been used in making the windbreak
modern camp trash near windbreak - a ziplock bag
- b. natural impacts:
bear + squirrel diggings in site area although they do not directly impact
features at present.

Additional Comments:

We left the windbreak in place and did not attempt to cover the exposed holes
in the hearths. The site may get washed over occasionally in spring - at least small
portions nearer the tributary may.

Sample showing how page one of the monitoring guide should be completed while in the field.

Photographs

Film Type Kodachrome 64 (slide) Roll Number field roll #2

Frame #	View (ex, compass direction)	Description
27	Hearth 4, looking N.	Shotgun in frame faces true N.
28	Hearth 4, looking NW 307°	
29	Hearth 1, stone windbreak in background, looking SW.	
30	Hearth 1, disturbed feature, shovel points true N.	
31	Hearth 1, close up of bone fragment	

TMax 100 (B+N)

field roll # 4

- 1 Fragments of metal between hearths 1+2
- 2 Hearth 2, view to N
- 3 Hearth 2, view to E
- 4 Hearth 3, disturbed feature, viewed to N

APPENDIX E:
MONITORING ZONE POLYGONS

Cultural Sites

By Backcountry
Management Zones

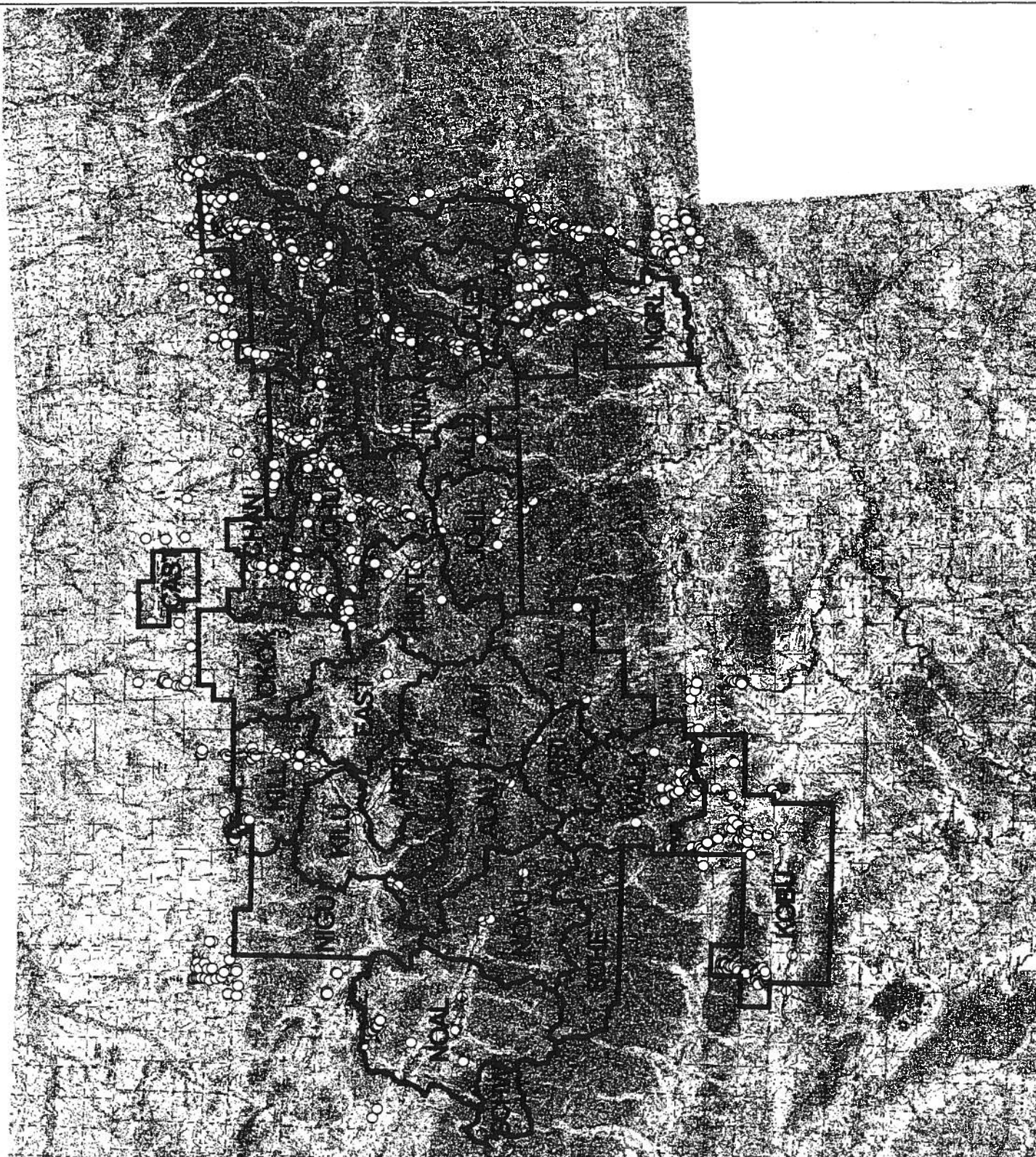
○ Cultural Site

Backcountry Management Zones

ALAL: Lower Alaina River
ALAM: Middle Alaina River
ALAU: Upper Alaina River
ALLE: Allen River
ANAK: Anaktuvuk Pass
APRI: April Creek
ARPT: Arlitch Peaks
CAST: Castle Mountain Unit
CHAN: Chandler Lake
CLEA: Clear River
EAST: Easter Creek
GLAC: Glacier River
HAMM: Hammond River
HUNT: Hunt Fork John River
ITKI: Itkillik River
JOHL: Lower John River
JOHU: Upper John River
KILL: Lower Killik River
KILL: Upper Killik River
KOBV: Kobuk Preserve Unit
NANU: Nanushuk River
NGU: Nigu River
NOAL: Lower Noatak River
NOAU: Upper Noatak River
NORL: Lower North Fork Koyukuk R.
NORM: Middle North Fork Koyukuk R.
NORU: Upper North Fork Koyukuk R.
OKOK: Okokilaga River
SCHW: Schwelika Mountains East
SCHW: Schwelika Mountains West
TINA: Tineyuk River
WALK: Walker Lake

National Park Service
Gates of the Arctic
National Park and Preserve
Cultural Resources

0 5 10 15 20 Miles



APPENDIX F:

COMPLETE LISTING OF CULTURAL SITES

NOTE: The following list contains ALL sites known to exist within the boundaries of the park/preserve. It has been included to provide background information for those wishing to understand how sites were scored and ranked, and how final monitoring determinations were made.

For a listing of only those sites that are to be monitored, please refer to Appendix G.

This listing was produced using the MSAccess archeological site database. The printout has been sorted in three levels: 1) by backcountry polygon/zone in alphabetical order, 2) according to significance rating within the given polygon, and 3) according to the overall impact rating ("impacts total" field on the printout).

KEY TO THE TABLE

ZONE	Monitoring zone
AHRS#	State assigned site number
SIG	Overall site significance rating
IMPACTS TOTAL	Sum of ratings for Access, Human Impacts, Natural Impacts, Hunter Use, and Recreation Use
LOCATION	Description of general location of site
ACCESS	Accessibility rating
HUMAN IMPACTS	Human impact rating and concern
NATURAL IMPACTS	Natural impact rating and concern
HUNT	Hunter use rating for area
RECR	Recreation use rating for area
LAND OWNER	Owner of land upon which site rests
COMMENTS	Additional site information

*If a column in the table lacks a figure other information it means that data was unavailable for making determinations at this time.

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
ANAK	XCL-00343 Chandler Lake B4	1		.5 mi off Confusion Creek	2 atv trail	2 proximity to atv trail	1			Nunamlut Corp/ASRC	
ANAK	XCL-00347 Chandler Lake B4	1		on Confusion Creek	2 atv trail	2 proximity to atv trail	1			Nunamlut Corp/ASRC	
ANAK	XCL-00340 Chandler Lake B4	1		on Tiglukpak Creek	2 atv trail	2 used as modern campsite	2 proximity to streambed			Nunamlut Corp/ASRC	
ANAK	XCL-00348 Chandler Lake B4	1		on Confusion Creek	2 atv trail	2 proximity to atv trail	1			Nunamlut Corp/ASRC	
ANAK	XCL-00341 Chandler Lake B4	1		on Skimo Creek	2 atv trail	2 proximity to atv trail	1			Nunamlut Corp/ASRC	
ANAK	Campbell's 3 Chandler Lake A3	16		2 ml from AKP, poss on route to Anaktuvuk R	5 hiking route	1	1	5	4	Nunamlut Corp/ASRC	
ANAK	Campbell's 25 Chandler Lake A3	16		on shore of Eleanor Lake	5	1	1	5	4	Nunamlut Corp/ASRC	
ANAK	Campbell's 7 Chandler Lake A3	16		on ridge above Anaktuvuk R., poss near ATV trail	5 hiking route, atv route	1	1	5	4	Arctic Slope Regional Corporation	
ANAK	XCL-00001 Chandler Lake A3	16		Anaktuvuk Pass Archaeological District	5	1	1	5	4	Nunamlut Corp/ASRC	AKP Archaeological District
ANAK	XCL-00004 Chandler Lake A3	16		on Anaktuvuk River	5	1	1	5	4	ASRC	
ANAK	XCL-00131 Chandler Lake A3	16		on Anaktuvuk River, north of town	5	1	1	5	4	ASRC	
ANAK	XCL-00005 Chandler Lake A3	16		near Kongumavik Ck and Anaktuvuk River confl	5	1	1	5	4	Nunamlut Corp/ASRC	Kongumovik. Sod houses, Eskimo/Athap. interface.

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
ANAK	Campbell's 4?		16	on Anaktuvuk River	5 hiking route	1	1	5	4	Arctic Slope Regional Corporation	
	Chandler Lake A3										
ANAK	Campbell's 5		16	1 ml off Anaktuvuk River	5 hiking route?	1	1	5	4	Nunamlut Corp/ASRC	
	Chandler Lake B3										
ANAK	Campbell's 8		16	.25-.5 ml off Anaktuvuk River	5	1	1	5	4	Arctic Slope Regional Corporation	
	Chandler Lake A3										
ANAK	Campbell's 4		13	Anaktuvuk area, near winter road	2 travel route, winter trail	1	1	5	4	Nunamlut Corp/ASRC	
	Chandler Lake A3										
ANAK	XCL-00342			on Skimo Creek	2					Nunamlut Corp/ASRC	
	Chandler Lake B4										
APRI	XSP-00005 Survey Pass D2			at Kutuk Pass						NPS	
CST	KIR-00019		7	.5 ml off May Lake	2 floatplane access	1	1	2	1	NPS	
	Killik River C1										
CHAN	XCL-00149	4	12	on Ikaglak Creek, 1 ml off Little Chandler Lake	3	1	1	4	3	Nunamlut Corp/ASRC	square and round tent rings, bone grease dump
	Chandler Lake B5										
CHAN	XCL-00089 Chandler Lake A5	2	13	.5 ml off Agiak Lake	3	1	1	4	4	NPS	
CHAN	XCL-00355 Chandler Lake A5	2	12	btwn Amiloyak and Chandler Lakes	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00082 Chandler Lake A5	2	12	on Chandler Lake	3 floatplane access	1	1	4	3	Justus Mekiana	On tract 08-130.
CHAN	XCL-00354 Chandler Lake A5	2	12	1 ml off Chandler Lake	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00356 Chandler Lake A5	2	12	3 ml off Chandler Lake	3 (well off travel route?)	1	1	4	3	NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
CHAN	XCL-00078	2	12	1 ml off Little Chandler Lake and trib of Ikagiak Creek	3 floatplane access	1	1	4	3	Nunamlut Corp/ASRC	
Chandler Lake B5											
CHAN	XCL-00068	2	12	btwn Amiloyak and Chandler Lakes	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00099	2	12	on Amiloyak Lake	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00353	2	12	1 ml off Chandler Lake	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00352	2	12	1 ml off Chandler Lake	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00155	1	13	on Chandler Lake	3 atv trail, floatplane access	2 near atv trail	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00064	1	12	on White Lake	3	1	1	4	3	Nunamlut Corp/ASRC	
Chandler Lake B5											
CHAN	XCL-00075	1	12	btwn Amiloyak and Chandler Lakes	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00070	1	12	btwn Amiloyak and Chandler Lakes	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00077	1	12	btwn Amiloyak and Chandler Lakes	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00092	1	12	1 ml off Agiak Lake	3 floatplane access (though a bit distant)	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00069	1	12	btwn Amiloyak and Chandler Lakes	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
CHAN	XCL-00085 Chandler Lake A5	1	12	on Chandler Lake	3	1	1	4	3	Justus Mekiana	On tract 08-130.
CHAN	XCL-00063 Chandler Lake B5	1	12	on White Lake	3	1	1	4	3	Nunamlut Corp/ASRC	
CHAN	XCL-00076 Chandler Lake A5	1	12	btwn Amiloyak and Chandler Lakes	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00098 Chandler Lake A5	1	12	.75 ml off Agiak Lake	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00090 Chandler Lake A5	1	12	.5 ml off Agiak Lake	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00086 Chandler Lake A5	1	12	.25 ml off Chandler Lake	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00071 Chandler Lake A5	1	12	btwn Amiloyak and Chandler Lakes	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00079 Chandler Lake B5	1	12	1 ml off Little Chandler Lake and trib of Ikagiak Creek	3 floatplane access (though distant)	1	1	4	3	Nunamlut Corp/ASRC	
CHAN	XCL-00062 Chandler Lake B5	1	12	on Round Lake (Aqalutak Lake)	3	1	1	4	3	Nunamlut Corp/ASRC	
CHAN	XCL-00107 Chandler Lake A5	1	12	on Amiloyak Lake	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00084 Chandler Lake A5	1	12	on Chandler Lake	3	1	1	4	3	Ellen T. Hugo	On tract 08-106.
CHAN	XCL-00074 Chandler Lake A5	1	12	btwn Amiloyak and Chandler Lakes	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00097 Chandler Lake A5	1	12	.5 ml off Agiak Lake	3 floatplane access	1	1	4	3	NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
CHAN	XCL-00083	1	12	on Chandler Lake	3 floatplane access	1	1	4	3	Justus Meklana	On tract 08-130.
Chandler Lake A5											
CHAN	XCL-00073	1	12	btwn Amiloyak and Chandler Lakes	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00061	1	12	on Round Lake (Aqalutak Lake)	3	1	1	4	3	Nunamlut Corp/ASRC	
Chandler Lake B5											
CHAN	XCL-00106	1	12	on Amiloyak Lake	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00100	1	12	on Amiloyak Lake	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00067	1	12	on Chandler River btwn Round and Little Chandler Lakes	3 floatplane access	1	1	4	3	Nunamlut Corp/ASRC	
Chandler Lake B5											
CHAN	XCL-00081	1	12	on Ikagiak Creek, 1 mi off Little Chandler Lake	3 floatplane access (though a bit distant)	1	1	4	3	Nunamlut Corp/ASRC	
Chandler Lake B5											
CHAN	XCL-00060	1	12	on Round Lake (Aqalutak Lake)	3	1	1	4	3	Nunamlut Corp/ASRC	
Chandler Lake B5											
CHAN	XCL-00072	1	12	1.25 mi off Amiloyak Lake	3 floatplane access (though distant)	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00091	1	12	.25 - .5 off Agiak Lake	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
CHAN	XCL-00080	1	12	on Ikagiak Creek, 1 mi off Little Chandler Lake	3 floatplane access (though a bit distant)	1	1	4	3	Nunamlut Corp/ASRC	
Chandler Lake B5											

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
CHAN	XCL-00103 Chandler Lake A5	1	12	.25 - .5 ml off Amiloyak Lake	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00127 Chandler Lake A5	1	12	1 ml off Aglak Lake	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00126 Chandler Lake A5	1	12	.75 ml off Aglak Lake	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00065 Chandler Lake B5	1	12	on Round Lake (Aqalutak Lake)	3	1	1	4	3	Nunamlut Corp/ASRC	
CHAN	XCL-00066 Chandler Lake B5	1		on Round Lake (Aqalutak Lake)	3	1	1	3	3	Roosevelt Paneak	On tract 07-111.
CHAN	XCL-00146 Chandler Lake B5		13	on Chandler Lake	3 floatplane access	1	2 bare and exposed area	4	3	Robert Paneak	Extensive tent ring. On tract 07-117.
CHAN	XCL-00141 Chandler Lake A5		12	on Chandler Lake	3 floatplane access	1	1	4	3	NPS	
CHAN	XCL-00143 Chandler Lake A5		12	1 ml off Chandler Lake	3	1	1	4	3	NPS	
CHAN	XCL-00145 Chandler Lake A5		12	on Chandler Lake	3 floatplane access	1	1	4	3	Nunamlut Corp/ASRC	
CHAN	XCL-00144 Chandler Lake A5		12	on Chandler Lake	3 floatplane access	1	1	4	3	Nunamlut Corp/ASRC?	
CHAN	XCL-00148 Chandler Lake B5		12	on Chandler River above Little Chandler Lake	3 floatplane access	1	1	4	3	Nunamlut Corp/ASRC	
CHAN	XCL-00142 Chandler Lake A5		12	on Chandler Lake	3 floatplane access	1	1	4	3	NPS	
CHAN	Campbell's 18 Chandler Lake A5		11	on Chandler Lake	3 floatplane access	1	1	3	3	NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
EAST	XSP-00001			on upper Easter Creek						NPS	
Survey Pass D1											
GLAC	WIS-00218	3	19	on Mascot Creek, near winter trail	5 hiking, winter travel	3 people moving artifacts around	2 general decay	5	4	NPS	cabin
Wiseman B2											
GLAC	WIS-00276	2	19	on Mascot Creek	5 on trail?	2	3 general decay	5	4	NPS	
Wiseman C2											
GLAC	WIS-00219	2	18	on Mascot Creek, near winter trail	5 on trail, hiking route	2	2 general decay	5	4	NPS	cabin ruin
Wiseman B2											
GLAC	WIS-00154	2	16	on Glacier River, near Squaw Rapids	5 river access, hiking route?	1	1	5	4	NPS	
Wiseman B2											
GLAC	WIS-00156	2	13	.5 ml off Glacier River, near Squaw Rapids	3 river access, hiking route?	1	1	3	5	NPS	
Wiseman B2											
GLAC	WIS-00246	1	19	at Glacier River and Conglomerate Creek	5 travel route?	2 visitor use area	3 decay, in active flood plain	5	4	NPS	cabin ruin
Wiseman B2											
GLAC	WIS-00228	1	19	on Mascot Creek	5 by winter trail and hiking route?	2 visitor use area?	3 decay, mudslide, in seasonal flood plain	5	4	NPS	cabin ruin
Wiseman C2											
GLAC	WIS-00267	1	19	on Conglomerate Creek	5	2	3 general decay, near obliteration	5	4	PRIVATE?	cabin ruin
Wiseman C2											
GLAC	WIS-00089	1	18	around Glacier Pass, on winter trail	5 winter travel, hiking area?	2	2	5	4	Doyon, Ltd.	On tract 13-101.
Wiseman B1											
GLAC	WIS-00088	1	17	on Glacier River	5 hiking route	2	1	5	4	NPS	
Wiseman B2											
GLAC	WIS-00087	1	17	on Glacier River	5 hiking route	2	1	5	4	NPS	
Wiseman B2											

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
GLAC	WIS-00153 Wiseman B2	1	16	on Glacier River	5	1	1	5	4	NPS	
GLAC	WIS-00147 Wiseman B2	1	15	btwn NF Koyukuk and Glacier Rivers, just above Squaw Rapids	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
GLAC	WIS-00225 Wiseman C1	1	9	on Washington Creek	3	1	1	2	2	Doyon, Ltd.	On tract 13-101.
GLAC	WIS-00227 Wiseman C1	1	9	on Washington Creek	3	1	1	2	2	Doyon, Ltd.? Or NPS?	On tract 13-101.
GLAC	WIS-00226 Wiseman C1	1	9	on Washington Creek	3	1	1	2	2	Doyon, Ltd.	On tract 13-101.
GLAC	WIS-00266 Wiseman C2	19	19	on Conglomerate Creek	5	2	3 erosion, near obliteration	5	4	NPS?	cabin ruin
GLAC	WIS-00216 Wiseman B1	18	18	on winter trail at Glacier River	5 winter travel, hiking route?	3	1	5	4	SELECTED	Charlie Yale Cabin, c1905
GLAC	WIS-00215 Wiseman B1	17	17	near Glacier Pass, on winter trail	5 winter travel, hiking route?	2	1	5	4	Doyon, Ltd.	On tract 13-101
GLAC	WIS-00221 Wiseman B2	17	17	on Glacier River/Mascot Creek	5	2	1	5	4	NPS	
GLAC	WIS-00222 Wiseman B2	17	17	on Glacier River/Mascot Creek	5	2	1	5	4	NPS	
GLAC	WIS-00220 Wiseman B2	17	17	on Glacier River/Mascot Creek	5	2	1	5	4	NPS	
GLAC	WIS-00243 Wiseman B2	17	17	on Glacier River/Mascot Creek/Bluedoud Creek	5	2	1	5	4	NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
GLAC	WIS-00244		17	on Glader River/Mascot Creek/Bluecloud Creek	5	2	1	5	4	NPS	
Wiseman B2											
GLAC	WIS-00248		17	on Glader River	5	2	1	5	4	NPS	
Wiseman B2											
GLAC	WIS-00247		17	on Glader River	5	2	1	5	4	NPS	
Wiseman B2											
GLAC	WIS-00049		17	w/in .25 ml of Nolan Creek Lake and winter trail	5 hiking route?, winter travel	2	1	5	4	NPS	
Wiseman B1											
GLAC	WIS-00217		17	on knoll by Glader River	5	2	1	5	4	Doyon, Ltd.	On tract 13-101.
Wiseman B1											
GLAC	WIS-00214		17	on winter trail near Pasco Creek	5 winter travel, hiking route?	2	1	5	4	NPS	cabin site
Wiseman B1											
GLAC	WIS-00269		17	on Conglomerate Creek	5	2	1	5	4	NPS	
Wiseman B2											
GLAC	WIS-00212		17	near Glader Pass, on winter trail	5 winter travel, hiking route?	2	1	5	4	Doyon, Ltd.	On tract 13-101.
Wiseman B1											
GLAC	WIS-00213		16	on high knoll near Glader Pass	5 winter travel, hiking route?	1	1	5	4	NPS	
Wiseman B1											
GLAC	WIS-00268		16	on Conglomerate Creek	5	1	1	5	4	NPS	
Wiseman B2											
GLAC	WIS-00245		16	on Bluecloud Creek	5	1	1	5	4	NPS	
Wiseman B2											
GLAC	WIS-00265		10	on unnamed creek (seems protected)	3	1	1	3	2	NPS	
Wiseman C2											

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
HAMM	PSM-00273		8	on W side of Kuyuktuk River, across from saddle (lack specific pinpoint)	1	1	1	3	2	NPS	
Phillip Smith Mt A5											
HAMM	PSM-00274		8	In Kuyuktuk saddle/pass (lack specific pinpoint)	1	1	1	3	2	NPS	
Phillip Smith Mt A5											
HAMM	PSM-00271		8	along cont. divide, well protected (lack specific pinpoint)	1	1	1	3	2	NPS	
Phillip Smith Mt A5											
HUNT	XCL-00358 Chandler Lake A5	4	12	.25 ml off Agiak Lake	3	1	1	4	3	NPS	Inuqsuq line
HUNT	XCL-00102 Chandler Lake A5	3	14	on Agiak Lake	3 floatplane access	3 vandalism has occurred	1	4	3	possibly-Dorris Hugo	Possibly on tract 08-101.
HUNT	XCL-00101 Chandler Lake A5	3	12	on Agiak Lake	3 floatplane access	1	1	4	3	NPS	Inuqsuq line (early 20th C)
HUNT	XCL-00108 Chandler Lake A5	2	14	on Agiak Lake	3 floatplane access	3 vandalism has occurred	1	4	3	NPS	severely damaged by unauthorized excavation
HUNT	XCL-00129	2	13	on Agiak Lake	3	2	1	4	3	NPS	Summer camp with hearths. Archies recommended excavation if threatened.
HUNT	XCL-00116 Chandler Lake A5	2	12	.25 ml off Agiak Lake	3 floatplane access	1	1	4	3	Dorris Hugo	Possibly on tract 08-101.
HUNT	XCL-00114 Chandler Lake A5	2	12	1/8 ml off Agiak Lake	3 floatplane access	1	1	4	3	Dorris Hugo	Linked to local site cluster. On tract 08-101.
HUNT	XCL-00113 Chandler Lake A5	2	12	on Agiak Lake	3 floatplane access	1	1	4	3	NPS	linked to local site cluster

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
HUNT	XCL-00115	2	12	1/8 ml off Agiak Lake	3 floatplane access	1	1	4	3	possibly-Dorris Hugo	Linked to local site cluster. Possibly on tract 08-101.
Chandler Lake A5											
HUNT	XCL-00093	1	14	near Agiak Lake	3 floatplane access	1	3 erosion	4	3	NPS	
Chandler Lake A5											
HUNT	XCL-00112	1	13	.25 ml off Agiak Lake	3 floatplane access	1	2 erosion	4	3	NPS	
Chandler Lake A5											
HUNT	XCL-00123	1	12	2 ml off Agiak Lake, near creek	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
HUNT	XCL-00109	1	12	.25 ml off Agiak Lake, on tributary of lake	3 floatplane access	1	1	4	3	Dorris Hugo	On tract 08-101.
Chandler Lake A5											
HUNT	XCL-00120	1	12	on Agiak Lake	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
HUNT	XCL-00119	1	12	.25 ml off Agiak Lake	3 floatplane access	1	1	4	3	Dorris Hugo	On tract 08-101.
Chandler Lake A5											
HUNT	XCL-00125	1	12	on knoll 1.5 ml off Agiak Lake (seems well protected)	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
HUNT	XCL-00111	1	12	on Agiak Lake	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
HUNT	XCL-00117	1	12	.25 ml off Agiak Lake	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
HUNT	XCL-00094	1	12	on Agiak Lake	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											
HUNT	XCL-00122	1	12	1 ml off Agiak Lake (on hillside?)	3 floatplane access	1	1	4	3	NPS	
Chandler Lake A5											

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
HUNT	XCL-00110 Chandler Lake A5	1	12	.5 ml off Agiak Lake	3 floatplane access	1	1	4	3	possibly-Dorris Hugo	Possibly on tract 08-101.
HUNT	XCL-00087 Chandler Lake A5	1	12	2 ml off Agiak Lake	3 floatplane access	1	1	4	3	NPS	
HUNT	XCL-00124 Chandler Lake A5	1	12	2.25 ml off Agiak Lake, near creek	3 floatplane access	1	1	4	3	NPS	
HUNT	XCL-00104 Chandler Lake A5	1	12	on hillside 1 ml off Agiak Lake	3 floatplane access	1	1	4	3	NPS	
HUNT	XCL-00118 Chandler Lake A5	1	12	1/8 ml off Agiak Lake	3 floatplane access	1	1	4	3	NPS	
HUNT	XCL-00096 Chandler Lake A5	1	12	on Agiak Lake	3 floatplane access	1	1	4	3	NPS	
HUNT	XCL-00095 Chandler Lake A5	1	12	1/8 ml off Agiak Lake	3 floatplane access	1	1	4	3	NPS	
HUNT	XCL-00088 Chandler Lake A5	1	12	2 ml off Agiak Lake	3 floatplane access	1	1	4	3	NPS	
HUNT	XCL-00105 Chandler Lake A5	1	12	on hillside 1 ml off Agiak Lake	3 floatplane access	1	1	4	3	NPS	
HUNT	XCL-00128 Chandler Lake A5	1	12	on Agiak Lake	3	1	1	4	3	NPS	
HUNT	KIR-00252 Killik River A1		12	on Agiak Creek	3	1	1	4	3	NPS	
HUNT	KIR-00042 Killik River A1		12	1 ml off Agiak Creek	3	1	1	4	3	NPS	
HUNT	KIR-00250 Killik River A1		12	on Agiak Creek	3	1	1	4	3	NPS	
HUNT	KIR-00041 Killik River A1		12	on slope, 1.25 ml off Agiak Creek	3	1	1	4	3	NPS	

[illegible]

[illegible]

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
ITKI	PSM-00225 Phillip Smith Mt B5	2	12	.5 ml off Itkillik River, In Oolah Valley	3 hiking route	2	1	3	3	NPS	
ITKI	PSM-00133 Phillip Smith Mt B5	2	12	on knoll 1 ml off Lake	3 floatplane access	2	1	3	3	NPS	Itkillik Archeo District. Cores and microblades.
ITKI	XCL-00024 Chandler Lake A1	2	12	.25 ml off Itkillik River (Ulutagiak)	3 on hiking route/good camp spot	2 on hiking route/good camp spot	1 rodent digging away from site	3	3	NPS	
ITKI	PSM-00124 Phillip Smith Mt B5	2	12	1 ml off Itkillik River	3 hiking route	2	1	3	3	NPS	Itkillik Archeo District
ITKI	PSM-00118 Phillip Smith Mt B5	2	12	.5 ml off Itkillik Lake	3 floatplane access	2	1	3	3	NPS	Itkillik Archeo District. Hunting blind. Archies coll'd artifacts
ITKI	PSM-00127 Phillip Smith Mt B5	2	12	.5 ml off Itkillik Lake	3 floatplane access	2	1	3	3	NPS	Itkillik Archeo District
ITKI	XCL-00055 Chandler Lake A1	2	12	off Snowwheel Mtn tributary, at Itkillik River confluence	3 hiking route	2 hiking, near river crossing point	1	3	3	NPS	not found in 1998
ITKI	PSM-00165 Phillip Smith Mt B5	2	12	.75 ml off Itkillik, In Oolah Valley	3 hiking route	2	1	3	3	NPS	Itkillik Archeo District. Inuqsug
ITKI	PSM-00232 Phillip Smith Mt B5	2	12	.75 ml off Itkillik River, In Oolah Valley	3 hiking route	2	1	3	3	NPS	
ITKI	PSM-00125 Phillip Smith Mt B5	2	12	.5 mi off Itkillik Lake	3 floatplane access	2	1	3	3	NPS	Itkillik Archeo District
ITKI	PSM-00134 Phillip Smith Mt B5	2	12	.75 ml off Itkillik Lake	3 floatplane access	2	1	3	3	NPS	Itkillik Archeo District
ITKI	XCL-00054 Chandler Lake B1	2	11	In Iniakalik Creek vicinity	3	1	1	3	3	NPS	

[illegible]

[illegible]

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
ITKI	XCL-00045 Chandler Lake A1	1	12	on Itkillik River	3 hiking route	2	1	3	3	NPS	
ITKI	XCL-00057 Chandler Lake A1	1	12	on knoll 2.5 mi off Itkillik River	3	1	2 minor erosion	3	3	NPS	
ITKI	XCL-00026 Chandler Lake A1	1	12	on knoll .5 mi off Itkillik River (Ulitaglak)	3 in hiking area, dry camp spot	2 hiking area, potential camp spot	1	3	3	NPS	
ITKI	XCL-00039 Chandler Lake A1	1	12	.25 mi off Itkillik River (Ulitaglak)	3 hiking route	2	1	3	3	NPS	
ITKI	XCL-00040 Chandler Lake A1	1	12	.25 mi off Itkillik River (Ulitaglak)	3 hiking route	2	1	3	3	NPS	
ITKI	XCL-00038 Chandler Lake A1	1	12	.25 mi off Itkillik River (Ulitaglak)	3 hiking route	2	1	3	3	NPS	
ITKI	XCL-00044 Chandler Lake A1	1	12	1/8 mi off unnamed tributary of Itkillik River	3 hiking route	2	1	3	3	NPS	
ITKI	PSM-00116 Phillip Smith Mt B5	1	12	.25 mi off Itkillik Lake	3 floatplane access	2	1	3	3	NPS	Itkillik Archeo District
ITKI	XCL-00048 Chandler Lake A1	1	12	.25 mi off Aumagulligaurauq Creek (trib of Itkillik R)	3 hiking route	2	1	3	3	NPS	
ITKI	PSM-00160 Phillip Smith Mt B5	1	12	.25 mi off Itkillik	3 floatplane access	2	1	3	3	NPS	Itkillik Archeo District
ITKI	PSM-00228 Phillip Smith Mt B5	1	12	1 mi off Itkillik River, in Oolah Valley	3 hiking route	2	1	3	3	NPS	
ITKI	PSM-00226 Phillip Smith Mt B5	1	12	.25 mi off Itkillik River, in Oolah Valley	3 hiking route	2	1	3	3	NPS	

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
ITKI	XCL-00049	1	11	on Augmagulgaurang Creek (trib of Itkillik R)	2 nearby hiking route	2	1	3	3	NPS	
Chandler Lake A1											
ITKI	PSM-00235 Phillip Smith Mt B5	1	11	on Itikmalak River		1	1	3	3	NPS	
ITKI	XCL-00058 Chandler Lake A1	1	11	on knoll 2.5 ml off Itkillik River		1	1	3	3	NPS	
ITKI	PSM-00230 Phillip Smith Mt B5	1	11	on tributary of Itikmalak River		1	1	3	3	NPS	
ITKI	XCL-00053 Chandler Lake B1	1	11	In Inlakaalik Creek vicinity		1	1	3	3	NPS	
ITKI	PSM-00236 Phillip Smith Mt B5	1	11	on Itikmalak River		1	1	3	3	NPS	
ITKI	XCL-00056 Chandler Lake B1	1	11	In Inlakaalik Creek vicinity		1	1	3	3	NPS	
ITKI	PSM-00315 Phillip Smith Mt B5	1	11	5 ml off Itkillik River, on unnamed tributary		1	1	3	3	NPS	
ITKI	PSM-00234 Phillip Smith Mt B5	1	11	on tributary of Itikmalak River		1	1	3	3	NPS	
ITKI	XCL-00052 Chandler Lake B1	1	11	2 ml off Itkillik Lake, in Itkillik River corridor	3 hiking route	1	1	3	3	NPS	
ITKI	PSM-00307 Phillip Smith Mt B5	12		1ml off Itikmalak River		2	1	3	3	NPS	
ITKI	XCL-00028 Chandler Lake A1	12		1/8 ml off Itkillik River (Ultragiak)	3 hiking route	2	1	3	3	NPS	

[illegible]

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
JOHU	WIS-00189	3	12	on lake at Hunt Fork and John River, near winter trail	2 river access	3 looting has occurred	1	3	3	NPS	
Wiseman D5											
JOHU	WIS-00183	3	12	.5 ml off Pubituk Creek, John River and winter trail	2 river access	3	1	3	3	NPS	poss elig for Nat'l Register
Wiseman D5											
JOHU	XCL-00336	2	12	on Contact Creek	3 atv trail	2 proximity to atv trail	1	3	3	ASRC?	
Chandler Lake A4											
JOHU	WIS-00197	2	12	.25 ml off John River and winter trail	2 river access, winter trail	3	1	3	3	NPS	
Wiseman D5											
JOHU	WIS-00186	2	12	.25 ml off John River and winter trail	2 river access, winter trail	3	1	3	3	NPS	
Wiseman D5											
JOHU	WIS-00163	2	12	1/8 ml off John River and winter trail	2 river access, winter travel, hiking?	3	1	3	3	NPS	
Wiseman D5											
JOHU	WIS-00165	2	12	on John River and winter trail	2 river access, winter travel, hiking?	3	1	3	3	NPS	
Wiseman D5											
JOHU	WIS-00173	2	12	.5 ml off Pubituk Creek, John River and winter trail	2 nearby river access, winter trail	3	1	3	3	NPS	
Wiseman D5											
JOHU	WIS-00198	2	12	1/8 ml off John River and winter trail	2 river access, winter travel, hiking?	3	1	3	3	NPS	
Wiseman D5											
JOHU	XCL-00351	2	12	on John River and winter trail	2 river access, winter travel, hiking?	3 good campsite	1	3	3	Numamlut Corp/ASRC	
Chandler Lake A4											
JOHU	WIS-00190	2	12	1 ml off John River and winter trail	2 river access, winter trail (though distant)	3	1	3	3	NPS	
Wiseman D5											

[illegible]

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
JOHU	WIS-00176	1	12	.5 ml off Publituk Creek, John River and winter trail	2 nearby river access, winter trail	3	1	3	3	NPS	
	Wiseman D5										
	WIS-00174	1	12	.5 ml off Publituk Creek, John River and winter trail	2 nearby river access, winter trail	3	1	3	3	NPS	
	Wiseman D5										
	WIS-00171	1	12	.5 ml off John River and winter trail	2 river access, winter trail	3	1	3	3	NPS	
	Wiseman D5										
	WIS-00170	1	12	.5 ml off John River and winter trail	2 river access, winter trail	3	1	3	3	NPS	
	Wiseman D5										
JOHU	WIS-00196	1	12	1/8 ml off John River and winter trail	2 river access, winter trail	3	1	3	3	NPS	
	Wiseman D5										
	WIS-00177	1	12	.5 ml off Publituk Creek, John River and winter road	2 nearby river access, winter trail	3	1	3	3	NPS	
	Wiseman D5										
	WIS-00195	1	12	1/8 ml off John River and winter trail	2 river access, winter trail	3	1	3	3	NPS	
	Wiseman D5										
	WIS-00193	1	12	.5 ml off John River and winter trail	2 river access, winter trail	3	1	3	3	NPS	
	Wiseman D5										
JOHU	WIS-00203	1	12	.75 ml off John River and winter trail	2 river access, winter trail	3	1	3	3	NPS	
	Wiseman D5										
	WIS-00168	1	12	.5 ml off John River and winter trail	2 river access, winter trail	3	1	3	3	NPS	
	Wiseman D5										
	XCL-00154	1	12	.25 ml off Ekokpuk Creek	3 atv trail	2 near atv trail	1	3	3	NPS	
	Chandler Lake A4										
	WIS-00160	1	12	.5 ml off John River and winter trail	2 river access, winter trail	3	1	3	3	NPS	
	Wiseman D5										

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
JOHU	XCL-00140 Chandler Lake A4		11	on Kollutarak Creek	2	2	1	3	3	NPS	stnooting pits
JOHU	Campbell's 20 Chandler Lake A5		10	on Kollutarak Creek	2	1	1	3	3	NPS	
JOHU	XCL-00135 Chandler Lake A4		10	on hillside above John River and winter trail	2 river access, winter travel (through distant)	1	1	3	3	Nunamlt Corp/ASRC	stone structures associated with Qalutag Ilick
JOHU	Campbell's 19 Chandler Lake A5		10	on Kollutarak Creek	2	1	1	3	3	NPS?	
KILL	KIR-00289 Kiliik River A2	4	13	on Kiliik River	3 river access	2 potential for visitor impacts	3 active bluff erosion	3	2	NPS	only prehist nunamlt site known (might be kavik- athapaskan)
KILL	KIR-00273 Kiliik River B2	4	13	on Kiliik River	3 river access	2 river travel, camping	3 dunal blowouts, wind erosion	3	2	NPS	one of only known prehistoric nunamlt habitation sites.
KILL	KIR-00124 Kiliik River B3	4	8	by creek, 1 mi off Kurupa Lake	2 floatplane access on kurupa lake	2 visitor impacts	1	1	2	NPS	excavated by Schoenberg
KILL	KIR-00139 Kiliik River B3	3	9	.5 mi off Kurupa Lake	3 floatplane access on kurupa lake	2 visitor impacts	1	1	2	NPS	Inugsug
KILL	KIR-00136 Kiliik River B3	3	9	.25 mi off Kurupa Lake	3 floatplane access on kurupa lake	2 visitor impacts	1	1	2	NPS	
KILL	KIR-00291 Kiliik River A2	2	11	.25 mi off Kiliik River	3 river access	2 potential visitor impacts	1	3	2	NPS	
KILL	KIR-00134 Kiliik River B3	2	10	.5 mi off Kurupa Lake	3 floatplane access on kurupa lake	2 visitor impacts	2 deflation	1	2	NPS	on tract 06-101/06-102 (mineral)

[illegible]

[illegible]

[illegible]

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
KILU	KIR-00006 Kilikik River A3		11	on Kilikik River	3 river access	2	1	3	2	NPS	
KOBU	XSP-00134 Survey Pass A4	3		1/5 mi off Reed River	2 river access?	1	1			NPS	
KOBU	HUG-00084 Hughes D6	3		on Lake Selby	2 floatplane access	1	1			NPS	
KOBU	HUG-00081 Hughes D6	3		on Lake Selby	2 floatplane access	2	1			NPS	
KOBU	HUG-00059 Hughes D6	3		on Lake Selby	2 floatplane access	2 tests done	2			NPS	testing was done on site
KOBU	HUG-00021 Hughes D3	2	16	on Kobuk, Upper Kobuk Canyon	4 deep canyon makes access difficult	1	2 bluff erosion	5	4	NPS	
KOBU	HUG-00037 Hughes D4	2	16	on slope 1 ml off Kobuk River	4 well off river	1	2 cryoturbation	5	4	NPS	rec'd to excavate if threatened
KOBU	HUG-00025 Hughes D4	2	15	between Reed and Kobuk Rivers	4 river access	1	1	5	4	NPS	
KOBU	HUG-00029 Hughes D4	2	15	on rise .5 ml off Kobuk River	4 river access	1	1	5	4	NPS	
KOBU	HUG-00073 Hughes D6	2		.5 ml off Lake Selby	2 floatplane access	1	1			NPS	
KOBU	HUG-00100 Hughes D6	2		on Narvak Lake	2 floatplane access	1	1			NPS	
KOBU	HUG-00112 Hughes D6	2		on Narvak Lake	2 floatplane access	2	2 erosion and game trail			NPS	
KOBU	HUG-00095 Hughes D6	2		on Lake Selby	2 floatplane access	2	1			NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
KOBU	HUG-00053 Hughes D6	2		on Narvak Lake	2 floatplane access	1	2 animal excavations			possibly- May Bernhardt	Possibly on tract 17- 105
KOBU	HUG-00092 Hughes D6	2		on Lake Selby	2 floatplane access	2	1			NPS	
KOBU	HUG-00078 Hughes D6	2		on Lake Selby	2 floatplane access	3	1			NPS	
KOBU	XSP-00056 Survey Pass A3	2		on Kichalakaka Creek		1	1			NPS	
KOBU	XSP-00102 Survey Pass A4	2		1/8 ml off Reed River		1	1			NPS	
KOBU	HUG-00074 Hughes D6	2		on Lake Selby	2 floatplane access	2	1			NPS	
KOBU	HUG-00091 Hughes D6	2		on Lake Selby	2 floatplane access	1	1			NPS	
KOBU	HUG-00085 Hughes D6	2		on Lake Selby	2 floatplane access	2	1			NPS	
KOBU	XSP-00098 Survey Pass A4	2		on Nutuvukti Lake	2 floatplane access	2	1			Nunamut Corporation	On tract 17-101
KOBU	HUG-00096 Hughes D6	2		on Lake Selby	2 floatplane access	2	2 cryoturbation and erosion			NPS	
KOBU	HUG-00097 Hughes D6	2		on Lake Selby	2 floatplane access	1	2 erosion			NPS	
KOBU	XSP-00124 Survey Pass A4	2		.25 ml off Reed River		1	1			NPS	
KOBU	XSP-00105 Survey Pass A4	2		on Reed River		1	1			NPS	
KOBU	XSP-00093 Survey Pass A4	2		.25 ml off Reed River		1	1			NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
KOBU	HUG-00122 Hughes D6	2		on Narvak Lake	2 floatplane access	1	1			NPS	
KOBU	HUG-00046 Hughes D6	2		on Narvak Lake	2 floatplane access	2	1			NPS	
KOBU	XSP-00095 Survey Pass A4	2		on Reed River		1	1			NPS	
KOBU	HUG-00030 Hughes D4	1	17	on rise .5 ml off Kobuk River	4 river access	3 river travel	1	5	4	NPS	
KOBU	HUG-00033 Hughes D4	1	17	1.5 ml off Kobuk River	4 river access (though well off banks)	3 river travel (though distant)	1	5	4	NPS	
KOBU	HUG-00031 Hughes D3	1	17	on knoll .25 ml off Upper Kobuk Canyon	4 river access	3 river travel	1	5	4	NPS	
KOBU	HUG-00036 Hughes D4	1	17	on slope 1.25 ml off Kobuk River	4 river access (though well off banks)	3 river travel (though distant)	1	5	4	NPS	
KOBU	HUG-00028 Hughes D4	1	17	on Kobuk River	4 river access	3 river travel	1	5	4	NPS	
KOBU	HUG-00035 Hughes D4	1	17	on rise 1.25 ml off Kobuk River	4 river access (though well off banks)	3 river travel (though distant)	1	5	4	NPS	
KOBU	HUG-00024 Hughes D4	1	17	.5 ml off Kobuk River	4 river access	3 river travel	1	5	4	NPS	
KOBU	HUG-00016 Hughes D4	1	17	on Kobuk River	4 river access	3 river travel	1	5	4	NPS	
KOBU	HUG-00034 Hughes D4	1	17	1.5 ml off Kobuk River	4 river access (though well off banks)	3 river travel (though distant)	1	5	4	NPS	
KOBU	HUG-00032 Hughes D4	1	16	1.75 ml off Kobuk River	4 well off river	1	2 exposed by fire	5	4	NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
KOBU	HUG-00019 Hughes D4	1	15	on rise 1.25 ml off Kobuk River	4 river access	1	1	5	4	NPS	
KOBU	HUG-00023 Hughes D4	1	15	on knoll above tributary of Kobuk River	4 river access	1	1	5	4	NPS	
KOBU	HUG-00018 Hughes D4	1	15	on ridge 1.5 ml off Kobuk River	4	1	1	5	4	NPS	
KOBU	HUG-00020 Hughes D4	1	15	on hillside between Reed and Kobuk Rivers	4 river access	1	1	5	4	NPS	
KOBU	HUG-00026 Hughes D3	1	15	.25 ml off Kobuk River, just below Upper Kobuk Canyon	4 river access	1	1	5	4	NPS	
KOBU	HUG-00027 Hughes D3	1	15	on Kobuk River	4 river access	1	1	5	4	NPS	
KOBU	HUG-00022 Hughes D3	1	15	on hillside 1.25 ml from Kobuk River	4 river access	1	1	5	4	NPS	
KOBU	HUG-00045 Hughes D4	1	13	on Kobuk River	4 river access	1	1	3	4	NPS	
KOBU	HUG-00038 Hughes D4	1	12	on slope between Reed and Kobuk Rivers	3 river access	3 river travel	1	2	3	NPS	
KOBU	HUG-00043 Hughes D4	1	12	on Kobuk River	3 river access	1	1	3	4	NPS	
KOBU	XSP-00052 Survey Pass A3	1	12	on Kobuk River	3 river access	2 river travel	2 erosion	2	3	NPS	
KOBU	XSP-00053 Survey Pass A3	1	10	.5 off Kobuk River	3 river access	1	1	2	3	NPS	
KOBU	HUG-00103 Hughes D4	1	9	1/8 ml off Reed River	2 hiking route??	1	2 fire exposure	2	2	NPS	

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
KOBU	XSP-00108 Survey Pass A4	1		near Reed River		1	2 game trail			NPS	
KOBU	XSP-00123 Survey Pass A4	1		.25 mi off Reed River		1	1			NPS	
KOBU	XSP-00142 Survey Pass A4	1		2.25 mi off Reed River		1	1			NPS	
KOBU	XSP-00130 Survey Pass A4	1		on Reed River		1	1			NPS	
KOBU	XSP-00100 Survey Pass A4	1		on Reed River		1	1			NPS	
KOBU	HUG-00118 Hughes D6	1		2.5 mi off Selby River	2 floatplane access (though off lake)	1	1			NPS	
KOBU	HUG-00105 Hughes D6	1		on Narvak Lake	2 floatplane access	1	1			NPS	
KOBU	XSP-00097 Survey Pass A4	1		on Nutuvukti Lake	2 floatplane access	1	2 erosion			possibly-Charlie A. Sheldon	Possibly on tract 17-101.
KOBU	XSP-00072 Survey Pass A3	1		.5 mi off Kichlakaka Creek		1	1			NPS	
KOBU	HUG-00106 Hughes D6	1		on Narvak Lake	2 floatplane access	1	1			NPS	
KOBU	HUG-00121 Hughes D6	1		on Narvak Lake	2 floatplane access	1	1			NPS	
KOBU	HUG-00101 Hughes D6	1		on Narvak Lake	2 floatplane access	1	1			NPS	
KOBU	HUG-00102 Hughes D6	1		on Narvak Lake	2 floatplane access	1	1			NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
KOBU	HUG-00120 Hughes D6	1		1/8 - 1/4 mi off Narvak Lake	2 floatplane access	1	1			NPS	
KOBU	HUG-00119 Hughes D6	1		on Narvak Lake	2 floatplane access	1	2			NPS	
KOBU	HUG-00108 Hughes D6	1		on Narvak Lake	2 floatplane access	1	1			NPS	
KOBU	HUG-00109 Hughes D6	1		on Narvak Lake	2 floatplane access	1	1			NPS	
KOBU	XSP-00057 Survey Pass A3	1		on Kichalalakaka Creek		1	1			NPS	
KOBU	XSP-00094 Survey Pass A4	1		on Reed River		1	1			NPS	
KOBU	XSP-00143 Survey Pass A4	1		2.25 mi off Reed River		1	1			NPS	
KOBU	XSP-00058 Survey Pass A3	1		.5 mi off Kichalalakaka Creek		1	1			NPS	
KOBU	XSP-00060 Survey Pass A3	1		on Kichalalakaka Creek		1	1			NPS	
KOBU	XSP-00128 Survey Pass A4	1		1.25 ml off Reed River		1	1			NPS	
KOBU	XSP-00140 Survey Pass A4	1		2 ml off Reed River		1	1			NPS	
KOBU	XSP-00127 Survey Pass A4	1		1 ml off Reed River		1	2			NPS	
KOBU	XSP-00120 Survey Pass A4	1		on Reed River		1	1			NPS	
KOBU	XSP-00059 Survey Pass A3	1		near Kichalalakaka Creek		1	1			NPS	
KOBU	XSP-00096 Survey Pass A4	1		on Nutuvukti Lake	2 floatplane access	1	2 erosion			NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
KOBU	XSP-00144	1		2.25 mi off Reed River		1	1			NPS	
Survey Pass A4											
KOBU	XSP-00079	1		on Kichalalaka Creek		1	1			NPS	
Survey Pass A3											
KOBU	XSP-00076	1		near Kichalalaka Creek		1	1			NPS	
Survey Pass A3											
KOBU	XSP-00121	1		.25 mi off Reed River		1	1			NPS	
Survey Pass A4											
KOBU	XSP-00070	1		1/8 mi off Kichalalaka Creek		1	1			NPS	
Survey Pass A3											
KOBU	XSP-00069	1		1/8 mi off Kichalalaka Creek		1	1			NPS	
Survey Pass A3											
KOBU	XSP-00103	1		.5 mi off Reed River		1	1			NPS	
Survey Pass A4											
KOBU	XSP-00101	1		.25 mi off Reed River		1	3 erosion			NPS	
Survey Pass A4											
KOBU	XSP-00122	1		on Reed River		1	1			NPS	
Survey Pass A4											
KOBU	XSP-00061	1		.75 mi off Kichalalaka Creek		1	1			NPS	
Survey Pass A3											
KOBU	XSP-00131	1		1.75 mi off Reed River		1	1			NPS	
Survey Pass A4											
KOBU	XSP-00116	1		.25 mi off Reed River		1	1			NPS	
Survey Pass A4											
KOBU	XSP-00080	1		.25 mi off Kichalalaka Creek		1	1			NPS	
Survey Pass A3											
KOBU	HUG-00110	1		on Narvak Lake	2 floatplane access	1	1			NPS	
Hughes D6											
KOBU	XSP-00068	1		1/8 mi off Kichalalaka Creek		1	1			NPS	
Survey Pass A3											

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
KOBU	HUG-00079 Hughes D6	1		on Selby River	2 floatplane access	1	1			NPS	
KOBU	HUG-00050 Hughes D6	1		on Lake Selby	2 floatplane access	1	2 erosion (non river)			NPS	
KOBU	XSP-00125 Survey Pass A4	1		.25 ml off Reed River		1	1			NPS	
KOBU	HUG-00058 Hughes D6	1		on Lake Selby	2 floatplane access	1	1			NPS	
KOBU	HUG-00068 Hughes D6	1		on Island in Lake Selby	2 floatplane access	1	1			NPS	
KOBU	HUG-00093 Hughes D6	1		on Lake Selby	2 floatplane access	1	1			NPS	
KOBU	HUG-00094 Hughes D6	1		on Lake Selby	2 floatplane access	1	2 cryoturbation			NPS	
KOBU	HUG-00082 Hughes D6	1		on Lake Selby	2 floatplane access	1	1			NPS	
KOBU	HUG-00086 Hughes D6	1		on Lake Selby	2 floatplane access	1	1			NPS	
KOBU	HUG-00065 Hughes D6	1		on Lake Selby	2 floatplane access	1	1			NPS	
KOBU	XSP-00071 Survey Pass A3	1		near Kitchalakaka Creek		1	1			NPS	
KOBU	HUG-00066 Hughes D6	1		on Lake Selby	2 floatplane access	1	1			NPS	
KOBU	HUG-00064 Hughes D6	1		.25 ml off Lake Selby	2 floatplane access	1	1			NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
KOBU	HUG-00071	1		.25 ml off Lake Selby	2 floatplane access	1	1			NPS	
Hughes D6											
KOBU	HUG-00072	1		.25 ml off Lake Selby	2 floatplane access	1	1			NPS	
Hughes D6											
KOBU	HUG-00083	1		on Lake Selby	2 floatplane access	1	1			NPS	
Hughes D6											
KOBU	HUG-00080	1		on Selby River	2 floatplane access	1	1			NPS	
Hughes D6											
KOBU	HUG-00113	1		1/8 - 1/4 ml off Selby River	2 floatplane access	1	1			NPS	
Hughes D6											
KOBU	HUG-00114	1		.75 ml off Lake Selby	2 floatplane access	1	1			NPS	
Hughes D6											
KOBU	HUG-00115	1		.5 ml off Selby River	2 floatplane access	1	1			NPS	
Hughes D6											
KOBU	HUG-00116	1		.75 ml off Selby River		1	2	crypturbation		NPS	
Hughes D6											
KOBU	HUG-00117	1		1.25 ml off Selby River	2 floatplane access (though off lake)	1	1			NPS	
Hughes D6											
KOBU	HUG-00067	1		on Lake Selby	2 floatplane access	1	1			NPS	
Hughes D6											
KOBU	HUG-00051	1		on Lake Selby	2 floatplane access	2	1			NPS	
Hughes D6											
KOBU	HUG-00052	1		on Narvak Lake	2 floatplane access	1	1			May Bernhardt	On tract 17-105.
Hughes D6											
KOBU	HUG-00047	1		on Narvak Lake	2 floatplane access	1	1			NPS	
Hughes D6											

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
KOBU	HUG-00089	1		on Lake Selby	2 floatplane access	1	1			NPS	
	Hughes D6										
KOBU	HUG-00087	1		on Lake Selby	2 floatplane access	1	2 cryoturbation			NPS	
	Hughes D6										
KOBU	HUG-00088	1		on Lake Selby	2 floatplane access	1	1			NPS	
	Hughes D6										
KOBU	HUG-00054	1		on Lake Selby	2 floatplane access	2	2 erosion and frost heaves			NPS	
	Hughes D6										
KOBU	HUG-00055	1		on Lake Selby	2 floatplane access	1	1			NPS	
	Hughes D6										
KOBU	HUG-00056	1		on Lake Selby	2 floatplane access	2	1			NPS	
	Hughes D6										
KOBU	HUG-00062	1		on Lake Selby	2 floatplane access	2	1			NPS	
	Hughes D6										
KOBU	HUG-00137		8	on Nutuvukti Lake	2 floatplane access	1	1	2	2	NPS	
	Hughes D4										
NANU	XCL-00330 Chandler Lake A2		5	on Alapah Mountain	1	1	1	1	1	NPS	
NANU	XCL-00306 Chandler Lake B2			on slope near Ear Peak						NPS	
NANU	XCL-00179 Chandler Lake B2			.5 mi off Kanayut River						NPS	
NANU	XCL-00177 Chandler Lake B2			on Kanayut River						NPS	
NANU	XCL-00304 Chandler Lake B2			.5 mi off Kanayut River						NPS	
NANU	XCL-00181 Chandler Lake B2			on Alapah Creek						NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
NANU	XCL-00178			.5 mi off Kanayut River Chandler Lake B2						NPS	
NANU	XCL-00305			.5 mi off Kanayut River Chandler Lake B2						NPS	
NANU	XCL-00307			on Kanayut River Chandler Lake B2						NPS	
NANU	XCL-00180			on high knoll btwn Kanayut and Alapah Rivers Chandler Lake B2						NPS	
NOAL	AMR-00027	3	7	on Lake Amitchiak shore Ambler River D1	2	1	2 ice thrusting along shore (minor)	1	1	NPS	
NOAL	AMR-00036	3	6	on Lake Kipmuk shore Ambler River D1	2 floatplane access	1	1	1	1	NPS	
NOAL	AMR-00019	2	7	on 8 meter high bluff on N shore of Lake Kipmuk Ambler River D1	1	1	3 erosion (river?)	1	1	NPS	"Kupiuk" site. Numerous houses. Kunz Id'd with # AMR-032.
NOAL	AMR-00037	2	6	on Lake Kipmuk shore Ambler River D1	2 floatplane access	1	1	1	1	NPS	
NOAL	AMR-00033	2	6	on Lake Amitchiak shore Ambler River D1	2 floatplane access	1	1	1	1	NPS	
NOAL	AMR-00038	2	6	on Lake Kipmuk shore Ambler River D1	2 floatplane access	1	1	1	1	NPS	
NOAL	AMR-00026	2	5	1/8 mi off Nushratutak Creek Ambler River C1	1	1	1	1	1	NPS	
NOAL	AMR-00044	1	7	on Lake Kipmuk shore Ambler River D1	2 floatplane access	1	2	1	1	Nunamiut Corporation	on tract 15-101

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
NOAL	AMR-00042	1	6	on high knoll, above Lake Kipmuk	2 floatplane access (through off lake)	1	1	1	1	NPS	
Ambler River D1											
NOAL	AMR-00040	1	6	on Lake Kipmuk shore	2 floatplane access	1	1	1	1	NPS	
Ambler River D1											
NOAL	AMR-00035	1	6	1/4 mi off Lake Amitchiak	2 floatplane access	1	1	1	1	NPS	
Ambler River D1											
NOAL	AMR-00047	1	6	on Lake Kipmuk shore	2 floatplane access	1	1	1	1	NPS	
Ambler River D1											
NOAL	AMR-00052	1	6	on Lake Kipmuk shore	2 floatplane access	1	1	1	1	Nunamlut Corporation	on tract 15-101
Ambler River D1											
NOAL	AMR-00046	1	6	on rise .75 mi off Lake Amitchiak	2 floatplane access	1	1	1	1	NPS	
Ambler River D1											
NOAL	AMR-00045	1	6	1 mi off Lake Amitchiak	2 floatplane access (through off lake)	1	1	1	1	NPS	
Ambler River D1											
NOAL	AMR-00021	1	6	on Lake Kipmuk shore	2 floatplane access	1	1	1	1	NPS	
Ambler River D1											
NOAL	AMR-00050	1	6	on Lake Kipmuk shore	2 floatplane access	1	1	1	1	NPS	
Ambler River D1											
NOAL	AMR-00020	1	6	on Lake Kipmuk shore	2 floatplane access	1	1	1	1	NPS	
Ambler River D1											
NOAL	AMR-00049	1	6	on high knoll, above Lake Kipmuk	2 floatplane access	1	1	1	1	NPS	
Ambler River D1											
NOAL	AMR-00051	1	6	on Lake Kipmuk shore	2 floatplane access	1	1	1	1	NPS	
Ambler River D1											

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
NORL	WIS-00131	2	15	on North Fork Koyukuk River	3 river access, hiking route	2	2 erosion, possibly flooded over in 1994	3	5	NPS	
Wiseman B2											
NORL	WIS-00129	2	15	on North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
Wiseman C3											
NORL	WIS-00273	2	15	on North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
Wiseman C3											
NORL	WIS-00128	2	15	.25 ml off North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
Wiseman C3											
NORL	WIS-00149	2	15	1/8 ml off North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
Wiseman B2											
NORL	WIS-00127	2	14	.5 ml off North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
Wiseman B2											
NORL	WIS-00134	2	14	.75 ml off North Fork Koyukuk River	3 river access, hiking route?	2	1	3	5	NPS	
Wiseman B2											
NORL	WIS-00133	2	14	.5 ml off North Fork Koyukuk River	3 river access, hiking route?	2	1	3	5	NPS	
Wiseman B2											
NORL	WIS-00132	2	14	.5 ml off North Fork Koyukuk River	3 river access, hiking route?	2	1	3	5	NPS	
Wiseman B2											
NORL	WIS-00155	2	14	.75 ml off North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
Wiseman B2											
NORL	WIS-00136	2	9	on lake near Delay Pass	2 hiking route?	2	1	2	2	NPS	
Wiseman B2											

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
NORL	WIS-00135 Wiseman B2	2	9	on lake near Delay Pass	2 hiking?	2	1	2	2	NPS	
NORL	WIS-00091 Wiseman C3	2	7	.75 ml off North Fork Koyukuk River	1	2	1	2	1	NPS	
NORL	WIS-00124 Wiseman C3	1	15	.25 ml off North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
NORL	WIS-00123 Wiseman C3	1	15	.25 ml off North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
NORL	WIS-00143 Wiseman B2	1	15	.25 ml off North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
NORL	WIS-00093 Wiseman B2	1	15	on North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
NORL	WIS-00151 Wiseman B2	1	15	.25 ml off North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
NORL	WIS-00137 Wiseman B2	1	15	.25 ml off North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
NORL	WIS-00150 Wiseman B2	1	15	on North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
NORL	WIS-00138 Wiseman B2	1	15	.25 ml off North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
NORL	WIS-00139 Wiseman B2	1	15	.25 ml off North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	

ZONE	AHRS #	SIG	IMPACT'S TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
NORL	WIS-00090	1	15	1/8 ml off North Fork Koyukuk River	3 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
Wiseman C3											
NORL	WIS-00125	1	14	on North Fork Koyukuk River	2 river access, hiking route	2	2 possibly flooded over in 1994	3	5	NPS	
Wiseman B2											
NORL	WIS-00126	1	14	on lake w/in .5 ml of North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
Wiseman B2											
NORL	WIS-00120	1	14	on lake w/in 1 ml of North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
Wiseman B2											
NORL	WIS-00117	1	14	.5 ml off North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
Wiseman C3											
NORL	WIS-00141	1	14	on rise 1 ml off North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
Wiseman B2											
NORL	WIS-00118	1	14	.5 ml off North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
Wiseman C3											
NORL	WIS-00130	1	14	1 ml off North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
Wiseman C3											
NORL	WIS-00142	1	14	.5 ml off North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
Wiseman B2											
NORL	WIS-00144	1	14	.5 ml off North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
Wiseman B2											
NORL	WIS-00145	1	14	.75 ml off North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
Wiseman B2											
NORL	WIS-00119	1	7	on North Fork Koyukuk River	1 1	2	1	2	1	NPS	
Wiseman B2											

[illegible]

[illegible]

[illegible]

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
NORM	WIS-00282		13	on ridge 1.5 mi off North Fork Koyukuk River	3 river access, hiking route (though prob protected)	1	1	3	5	NPS	
	Wiseman C2										
NORU	WIS-00084 Wiseman D2	2	15	on Ernie Creek	3 hiking route	2	2 cryoturbation	3	5	NPS	
NORU	WIS-00068 Wiseman D2	2	14	on Ernie Creek	3 hiking route	2	1	3	5	NPS	
NORU	WIS-00146 Wiseman D2	2	14	.75 mi off North Fork Koyukuk River	3	2	1	3	5	NPS	
NORU	WIS-00072 Wiseman D2	2	14	.5 mi off Ernie Creek/North Fork Koyukuk River	3 hiking route	2	1	3	5	possibly-Ben K. Ahgook	Possibly on tract 14-114.
NORU	WIS-00063 Wiseman D2	1	15	on Ernie Creek, at Shushalluk Ck	3 hiking route	2	2 cryoturbation	3	5	NPS	
NORU	WIS-00082 Wiseman D2	1	15	.5 mi off North Fork Koyukuk River	3 river access, hiking route	2	2 erosion	3	5	NPS	Isolate - was removed. therefore, no site exists
NORU	WIS-00067 Wiseman D2	1	15	1/8 mi off North Fork Koyukuk River/Ernie Creek	3 hiking area	2 hiking/campin g	2 possibly flooded over In 94	3	5	Ben K. Ahgook	On tract 14-114.
NORU	WIS-00059 Wiseman D2	1	15	on Ernie Creek	3 hiking route	2	2 erosion	3	5	NPS	
NORU	WIS-00062 Wiseman D2	1	15	on Ernie Creek, at Shushalluk Ck	3 hiking route	2	2 sic diggings	3	5	NPS	
NORU	WIS-00065 Wiseman D2	1	15	.25 mi off Shushalluk and Ernie Creeks	3 hiking route	2	2 cryoturbation	3	5	NPS	
NORU	WIS-00069 Wiseman D2	1	14	on Ernie Creek	3 hiking route	2	1	3	5	NPS	
NORU	WIS-00061 Wiseman D2	1	14	1 ml off Ernie Creek	3 hiking route	2	1	3	5	NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
NORU	WIS-00056 Wiseman D2	1	14	.5 mi off North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
NORU	WIS-00054 Wiseman D2	1	14	on North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
NORU	WIS-00053 Wiseman D2	1	14	on North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	NPS	
NORU	WIS-00083 Wiseman D2	1	14	on Ernie Creek	3 hiking route	2	1	3	5	NPS	
NORU	WIS-00071 Wiseman D2	1	14	.25 ml off Ernle Creek	3 hiking route	2	1	3	5	NPS	
NORU	WIS-00064 Wiseman D2	1	14	on Ernle Creek, at Shushalluk Ck	3 hiking route	2	1	3	5	NPS	
NORU	WIS-00070 Wiseman D2	1	14	.5 ml off Ernle Creek/North Fork Koyukuk River	3 hiking route	2	1	3	5	NPS	
NORU	WIS-00060 Wiseman D2	1	14	on Ernle Creek	3 hiking route	2	1	3	5	NPS	
NORU	WIS-00058 Wiseman D2	1		.25 ml off Ernle Creek	3 hiking route	2	1			NPS	
NORU	WIS-00262 Wiseman D2		14	.25 ml off Ernle Creek	3	2	1	3	5	NPS	
NORU	WIS-00055 Wiseman D2		14	on North Fork Koyukuk River	3 river access, hiking route	2	1	3	5	Ben K. Ahgook	On tract 14-114.
NORU	WIS-00052 Wiseman D2			on North Fork Koyukuk River	3 river access, hiking route			3	5	NPS	
OKOK	KIR-00254 Kiliik River A1		12	on knoll, by Aglialak Creek	3	1	1	4	3	NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
OKOK	KIR-00255		12	on knoll, by Aglagiak Creek	3	1	1	4	3	NPS	
Killik River A1											
OKOK	KIR-00253		12	on knoll, by Aglagiak Creek	3	1	1	4	3	NPS	
Killik River A1											
TINA	WIS-00272 Wiseman D4			on Tinayguk River						NPS?	
WALK	XSP-00055	4	11	on outlet of Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00045	2	12	.25 ml off Walker Lake	3 floatplane access	3	1	2	3	NPS	poss Hall's 74W1
Survey Pass A3											
WALK	XSP-00043	2	12	.25 ml off Walker Lake	3 floatplane access	3	1	2	3	NPS	poss Hall's 74W3
Survey Pass A3											
WALK	XSP-00054	2	10	.25 ml off Walker Lake	3 floatplane access	1	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00050	2	10	1 ml off Walker Lake	3 floatplane access	1	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00077	2		.75 ml off Kichalakaka Creek		1	2 cryoturbation			NPS	
Survey Pass A3											
WALK	XSP-00066	2		1 ml off Kichalakaka Creek		1	2 erosion			NPS	
Survey Pass A3											
WALK	XSP-00083	1	15	on Kobuk River	4 river access	1	1	5	4	NPS	
Survey Pass A3											
WALK	XSP-00047	1	12	next to Walker Lake	3 floatplane access	3	1	2	3	NPS	poss Hall's 74W2
Survey Pass A3											
WALK	XSP-00046	1	12	on outlet of Walker Lake	3 floatplane access	3	1	2	3	NPS	poss Hall's 74W2
Survey Pass A3											

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
WALK	XSP-00092	1	11	1.25 ml off Walker Lake	3 floatplane access (though off lake)	1	2 eroding bluff	2	3	NPS	
Survey Pass A3											
WALK	XSP-00088	1	11	.5 ml off Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00044	1	11	.25 ml off Walker Lake	3 floatplane access	1	2 erosion	2	3	NPS	
Survey Pass A3											
WALK	XSP-00089	1	11	.25 ml off Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00086	1	11	.75 ml off Walker Lake	3 floatplane access	1	2 on game trail	2	3	NPS	
Survey Pass A3											
WALK	XSP-00087	1	11	.5 ml off Walker Lake	3 floatplane access	2 hikers?	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00042	1	11	1 ml off Walker Lake	3 floatplane access	1	2 erosion	2	3	NPS	
Survey Pass A3											
WALK	XSP-00049	1	11	1 ml off Walker Lake	3 floatplane access	1	2 erosion	2	3	NPS	
Survey Pass A3											
WALK	XSP-00085	1	11	on Walker Lake	3 floatplane access	2 hikers?	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00051	1	10	on outlet of Walker Lake	3 floatplane access	1	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00041	1	10	.25 ml off Walker Lake	3 floatplane access	1	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00048	1	10	.25 ml off Walker Lake	3 floatplane access	1	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00091	1		.25 ml off Reed River		1	1			NPS	
Survey Pass A4											

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
WALK	XSP-00090 Survey Pass A4	1		.75 ml off Reed River		1	1			NPS	
WALK	XSP-00084 Survey Pass A4	1		.25 ml off Reed River		1	1			NPS	
WALK	XSP-00107 Survey Pass A4	1		.25 ml off Reed River		1	1			NPS	
WALK	XSP-00078 Survey Pass A3	1		1 ml off Kichalakaka Creek		1	1			NPS	
WALK	XSP-00065 Survey Pass A3	1		.5 ml off Kichalakaka Creek		1	1			NPS	
WALK	XSP-00062 Survey Pass A3	1		.75 ml off Kichalakaka Creek		1	1			NPS	
WALK	XSP-00064 Survey Pass A3	1		1 ml off Kichalakaka Creek		1	1			NPS	
WALK	XSP-00063 Survey Pass A3	1		1 ml off Kichalakaka Creek		1	1			NPS	
WALK	XSP-00155 Survey Pass A3		15	on Kobuk River	4 floatplane access	1	1	5	4	NPS	
WALK	XSP-00009 Survey Pass A3		12	on Walker Lake	3 floatplane access	3 vandalism has occurred	1	2	3	NPS	
WALK	XSP-00007 Survey Pass A3		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
WALK	XSP-00157 Survey Pass A3		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
WALK	XSP-00018 Survey Pass A3		11	on Walker Lake	3 floatplane access	2	1	2	3	PRIVATE	
WALK	XSP-00160 Survey Pass A3		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
WALK	XSP-00159		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00037		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00008		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00012		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00016		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00011		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00033		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00006		11	.25 ml off Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00035		11	.25 ml off Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00014		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00013		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00017		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00015		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											

[illegible]

ZONE	AHRS #	SIG	IMPACTS TOTAL	LOCATION	ACCESS	HUMAN IMPACTS	NATURAL IMPACTS	HUNT	RECR	LAND OWNER	COMMENTS
WALK	XSP-00019		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00032		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00031		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00030		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00029		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00034		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00002		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00025		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											
WALK	XSP-00020		11	on Walker Lake	3 floatplane access	2	1	2	3	NPS	
Survey Pass A3											

APPENDIX G:

**LISTING OF SITES TO BE MONITORED
In alphabetical order by zone designation.**

***This listing includes sites rated at levels of overall significance of 3 or 4. Sites in parentheses were rated at level 2. These level 2 sites should be located and examined if time allows.**

Parentheses Indicate Sites of Secondary Interest

ANAK 2000
*Anaktuvuk River &
Graylime Creek Sites*

XCL-349
(XCL-157)

CHAN 2001
Amiloyak Lake Sites

(XCL-068)
(XCL-099)
(XCL-355)

CHAN 2001
Chandler Lake Sites

(XCL-352)
(XCL-353)
(XCL-354)
(XCL-356)

GLAC 2003
*Mascot Creek & Glacier
River Sites*

WIS-218
(WIS-154)
(WIS-156)
(WIS-219)
(WIS-276)

HUNT/CHAN 2001
Agiak Lake Sites

XCL-101
XCL-358
(XCL-089)
(XCL-102) poss private land
(XCL-108)
(XCL-129)

ITKI 1999
Itkillik Lake Sites

PSM-109
PSM-138
PSM-143

PSM-145
XCL-051
(PSM-128)
(PSM-142)
(PSM-146)
(PSM-150)

ITKI 1998
*Lower Itkillik River Sites
Oolah Lake to Haul Road*

XCL-027
XCL-030

ITKI 2003
*Upper Itkillik River Sites
Oolah Lake to Itkillik Lake*

PSM-052
PSM-083
PSM-122
PSM-123
PSM-164
(PSM-124)
(PSM-161)
(PSM-165)
(PSM-210)
(PSM-225)
(PSM-232)

JOHU 2004
Upper John River Sites

WIS-166
WIS-183
WIS-189

KILL 1999
Killik River Sites

KIR-273
KIR-289
(KIR-270)
(KIR-291)

KILL 2002
Kurupa Lake Sites

KIR-124
KIR-136
KIR-139
(KIR-132)
(KIR-134)
(KIR-137)
(KIR-138)
(KIR-142)
(KIR-155)
(KIR-156)

KOBU 2002
Upper Kobuk River Sites

HUG-059
HUG-084
HUG-081
XSP-134

NOAL 2004
Lower Noatak River Sites

AMR-027
AMR-036
(AMR-019)
(AMR-026)
(AMR-033)
(AMR-037)
(AMR-038)

NORL 2003
*North Fork Koyukuk
Lower Sector Sites*

WIS-092

NORM 2000
*North Fork Koyukuk
Middle Sector Sites*

WIS-073
WIS-076
WIS-079
WIS-097

NORU 2004
North Fork Koyukuk
Upper Sector Sites

(WIS-068)
(WIS-084)
(WIS-146)

WALK 2001
Walker Lake Sites

XSP-055
(XSP-043)
(XSP-045)
(XSP-050)
(XSP-054)